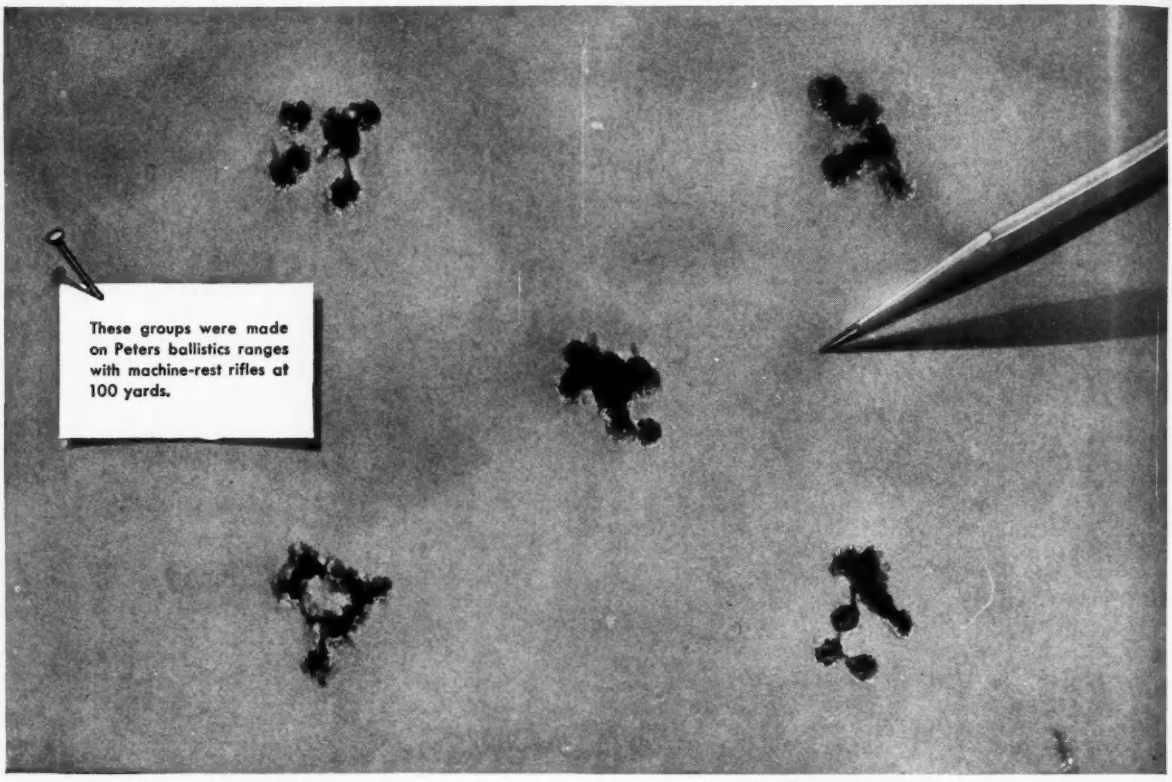
RTL
949

AMERICAN RIFLEMAN

OA. 8267 C-267 L.T. 11-15-37
BRUCE M. BURCHARD
RT. # 1, BOX 269
WALNUT CREEK, CALIF.

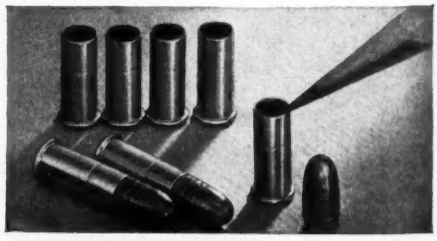


Proved for Possibles

HOW UNIFORM are Peters match cartridges? Perfectly uniform from cartridge to cartridge, box to box, case to case, to an amazingly fine degree. This uniformity is built in through quality control on the production line and precision testing in Peters laboratories. And it's *guaranteed* by the Peters system of test-firing, from rifles in machine rests, control-samples of every lot produced. *A large percentage of the rifle groups made on Peters ballistics ranges at 100 yards can be covered by a 25¢ piece!*

Next time you "sight in," squeeze the trigger on Peters "Police Match" or Peters "Dewar Match" 22's . . . and, for all-round range work, Peters "Target" 22's. Remember! *There's no more accurate rim-fire ammunition in the world!*

SAMPLES FROM regular production of Peters match cartridges are stored in their packages for weeks under conditions of tropical heat and humidity, then tested for dependable performance. One more assurance of perfect ammunition for you!

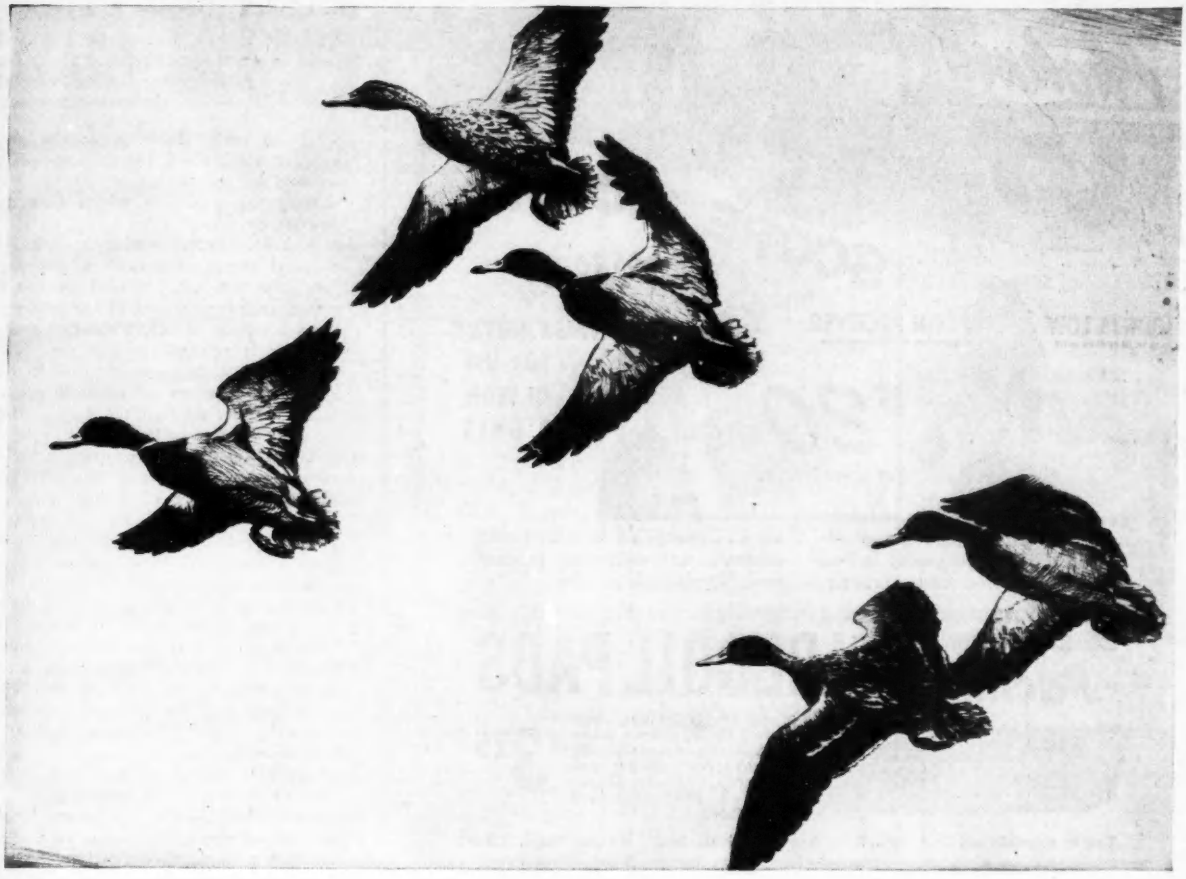


FROM THE CRIMP OF THE CASE... to sameness in bullet, primer, and powder, testing for perfect uniformity is the theme in the production of Peters match ammunition.

PETERS
PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION — *Remington Arms Company, Inc., Bridgeport 2, Conn.—"Dewar Match" and "Target" are Reg. U.S. Pat. Off.—"Police Match" is a trademark of Peters Cartridge Division.*

DU PONT



"MALLARDS IN FLIGHT"

by Hans Kleiber

The decoys are set, the hunter crouches . . . watchful . . . waiting. Then, silhouetted against scudding autumn clouds, the first dark specks appear. They grow larger, and larger still. Suddenly they swerve. Mallards . . . and they're coming in!

These are moments a hunter lives for. Unfortunately, in many places, they're becoming fewer and farther between. Today, it's the responsibility of all true sportsmen to take positive action—now! To preserve wildlife, limit your bag. Join and support local and national organizations for game restoration and conservation. E. I. du Pont de Nemours & Co. (Inc.), Explosives Dept., Wilmington 98, Delaware.

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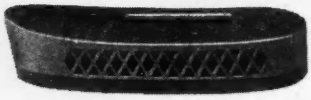

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RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters' is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer.

ANVIL—A metal dome inside the primer against which the priming composition is crushed by the impact of the firing pin, causing the explosion which ignites the powder charge.

BACKLASH—Excess motion in linked mechanical parts. Backlash in shooting is generally the term applied to the continued rearward travel of the trigger beyond the point at which the firing pin or hammer is released to fire the weapon. Also, backlash is commonly used in referring to the failure of a sight adjusting screw to move the sight the proper distance for each rotation of the screw.

CANNELURE—A groove around the circumference of a bullet or case such as the lubricating groove of a lead bullet, the expansion groove of an open-point expanding bullet, or the extractor groove around the head of a rimless or semi-rimless cartridge case.

CORROSION—The eating away of the bore of an arm due to rusting or the action of salts deposited from the primer or powder.

CREEP—In the trigger mechanism, a dragging action which prevents the trigger from releasing the hammer immediately when the proper pressure is applied.

EROSION—The wearing away of the bore of an arm from friction of the bullet or shot or from powder gases.

FIRING CYCLE—The operations involved in opening the action of any type of rifle, loading a single cartridge into the chamber, closing the action, firing the cartridge, and extracting the fired case.

HELICAL SPRING—A spring coiled lengthwise of its own axis like a screw thread which is often incorrectly called a coil spring.

IMPACT CAVITY—The cavity formed behind a bullet entering animal tissue or other substance by the displacement of particles of matter in or near the path of the projectile.

I.V.—Instrumental velocity is the actual velocity recorded over a given range by the chronograph.

LAP—A plug made of lead, iron or copper which, charged with abrasives, is used for fine grinding or polishing.

LEADING—Particles of bullet metal torn off as the bullet passes through the bore which adhere to the bore. The particles left by jacketed bullets are known as metal fouling.

PRESSURE—The outward thrust of the burning powder gases against case, chamber and bore. Usually pressure is measured one inch from the breech and recorded in pounds per square inch.

SEAR—One or more levers operating between the trigger and the hammer or cocking piece of the firing pin to provide additional controlled leverage, thus improving trigger action while transmitting that action to the hammer.

SPIRAL SPRING—A spring, usually of flat section, but not necessarily, which is wound with one coil outside the other.

THROAT—The section of a barrel, just forward of the chamber proper, at which the rifling is relieved to form a bullet seat.

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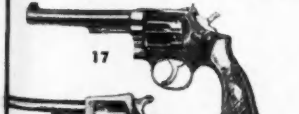
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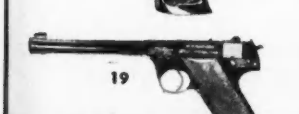
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NEW GUNS FOR 1949

Immediate Delivery— Postpaid

1 BELGIAN BROWNING AUTOMATIC SHOTGUN. Standard weight; plain barrel; hand engraved. State choice of 12 or 16 gauge, also barrel length and choke.
E2462—$11.00 Down, or CASH.....$108.80
E2463—Same as above, with raised rib $121.30
E2466—Browning "Light 12 or Sweet 16" Gauge Automatic.....$124.50
E2467—Browning "Light 12 or Sweet 16" with Raised Rib.....$137.00
E2341—American Browning Automatic. 12, 16 or 20 Gauge .....$ 99.50
E2342—American Browning Automatic with Raised Rib $114.50

2 MARLIN MODEL 90 OVER AND UNDER SHOTGUN. Newly designed 1949 Model. 12 Gauge with 26", 28" or 30" barrels.
E2271—$8.25 Down, or CASH.....$82.45

3 ITHACA MODEL 37 "FEATHERLIGHT" REPEATING SHOTGUN. Plain barrel. All gauges. State choice.
E2391—$8.35 Down, or CASH.....$83.50
E2392—Ithaca Model 37R, Same as E2391, except has raised rib.....$ 98.50
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E2394—Ithaca Model 37T Trap Grade, with Ventilated Rib. All Gauges.....$187.39

4 L. C. SMITH DOUBLE BARREL SHOTGUN. All gauges; State choice. Field Grade.
E2253—$9.00 Down, or CASH.....$98.95

5 STEVENS MODEL 22-410 OVER AND UNDER. Over barrel is 22 caliber; Under barrel is 410 gauge. Single trigger.
E2374—$3.25 Down, or CASH.....$32.25

6 WINCHESTER MODEL 12 SKEET GRADE REPEATER. Rib and Beavertail. All gauges. 26" skeet boring.
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E2318—Winchester Model 42 Skeet Grade with Rib. .410 Gauge.....$110.35
E2296—Winchester Model 12 Standard Grade Pump. All gauges. .....$ 84.95

7 MARLIN MODEL 336. 30-30 or 32 Special caliber Hy-Power Rifle. 7-Shot Carbine; 20" barrel.
E2127—$6.15 Down, or CASH.....$61.45
E2128—Marlin Model 336A. 30-30 or 32 Special caliber; 6-shot, 24" barrel..$72.55
E2129—Marlin Model 336ADL DeLuxe 30-30 or 32 Special. Hy-Power.....$87.50
E2149—Winchester Model 94 Carbine. 30-30 caliber. $62.45

8 30/06 REMODELED SPORTER WITH LYMAN 48 RECEIVER SIGHT. 6-Shot Converted Enfield Model 1917.
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Winchester Model 43 Bolt Action Repeater. 218 Bee caliber. New Model.
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10 NEW FN MAUSER SPORTING RIFLE. State choice of 270 or 30-06 caliber. Lyman 48 Rear Sight.
E2157—$18.68 Down, or CASH. $186.80

11 MOSSBERG 151M AUTOMATIC 22 CALIBER RIFLE. 15-Shot. Complete with Mossberg 4x Scope mounted.
E2103S—$4.00 Down, or CASH. $40.25
E2103—The rifle without scope. $30.90

12 JOHNSON INDOOR TARGET GUN. Complete with shooting gallery, pellets and accessories. Same as advertised in LIFE at $15.00. Save $10.05. Buy your gun at Klein's!
E2182—Limited Quantity. $4.95

13 NEWELL "AIRFIRE" SUB-MACHINE GUN". Harmless, because it uses only table tennis balls as ammunition. Safe fun for adults and children. Barrel is heavy gauge aluminum. One ball included Free. Additional balls 15c each.
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14 COLT 38 SUPER OR 45 AUTOMATIC
E2214—38 Super. $65.00
E2215—45 Automatic. $65.00
E2216—Colt 22 caliber conversion unit for either 38 or 45 Automatic.....$40.00

15 New MARKSMAN Air Pistol. 177 cal. With supply .177 pellets, darts. Accurate!
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16 SMITH & WESSON M&P SPECIAL REVOLVER. State choice of 4", 5" or 6" barrel length. 1949 Model.
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E2221—K-22, 22 LR caliber.....$65.00
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19 HI-STANDARD MODEL HD MILITARY 22 CALIBER AUTOMATIC. 10-Shot; 4½" or 6¾" barrel.
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20 COLT "WOODSMAN" SPORT MODEL. 22 Automatic; 10-Shot; 4½" barrel.
E2213—$6.00 Down, or CASH. $60.00
E2212—Colt "Woodsman" Target Model 22 Automatic. 6" barrel. $70.00
E2211—Colt Match Target "Woodsman". 10-Shot; 6" barrel. $85.00

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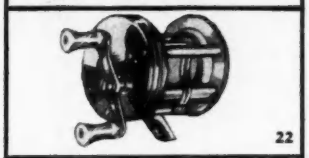
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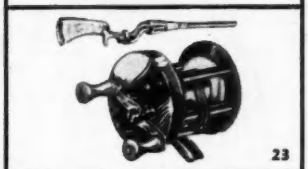
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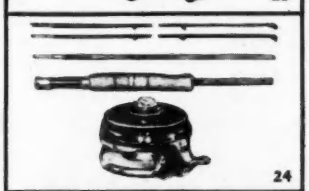
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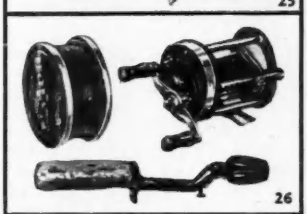
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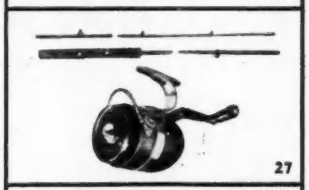
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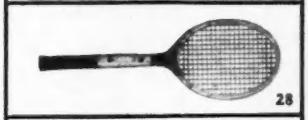
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22 Terrific Value! The "Admiral" Level wind and anti-backlash bait casting reel. 5 oz. Light weight aluminum alloy. 100 yard capacity. Postpaid.
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23 Only Klein's has such amazing Bargains! A "Gep" $14.20 Solid Steel 4½ or 5 ft. (state choice) Casting Rod (New 1948 Model—discontinued), plus an $11.00 Value "Admiral" Level Wind Reel. Both for only $9.95.
E4715—$25.00 Value, only.....$9.95

BALANCED FLY CASTING OUTFIT .. $21.35

24 Try to beat this great combination: a South Bend Model 59 Split Bamboo Fly Rod, choice of 8½ or 9 ft. length with extra tip and case; plus a Shakespeare Model 1837 Automatic Fly Reel, capacity 80 yds. "G" line, all for only $21.35. Postpaid.
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25 TELESCOPIC CASTING ROD. Full 5 ft. length rod telescopes to 11" over all. Weighs only 6 oz. Finest quality materials and workmanship throughout. Postpaid.
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BARGAIN! BALANCED CASTING OUTFIT $6.98

26 Cast on to this amazing value! For only $6.98 you get: a "Gep" Model 210 Solid Steel offset Handle Casting Rod, 4½ ft. length, plus a famous Bronson "Altoona" level-wind Casting Reel, plus a 50 yd. spool of Shakespeare Wexford 15 lb. test Nylon line. Postpaid.
E4709—Casting outfit, complete.....$6.98

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27 The outfit includes a fine "Lucerne" 7 ft. split bamboo Spinning rod designed for distance casting, plus an aluminum famous make streamlined spinning reel, light weight but with large line capacity. Ashaway 50 yd. spool spinning line included. Rod, Reel and Line are worth $35.00, but at Klein's you get all three for only $24.95. Postpaid.
E4714—Complete Spinning Outfit.....$24.95

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E7305—Extra special! $4.95

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29 Set includes 4 matched Bob Hagey Goose-neck registered irons (Nos. 3, 5, 9 and putter). Irons have step-down steel shafts and perforated oval leather grips; satin finish flange sole heads. 1 driver or brassie (state choice) to match and oval canvas stay bag included.
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E7077—Same set as E7076 above, except with 5 irons and 2 woods, plus de luxe $9.00 Value Golf Bag with ball and shoe pockets and hood. Set complete. $34.95

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STEVENS .22 RIFLES
First in Value

Model 86 — .22 caliber Bolt Action, Tubular Magazine Repeating Rifle. Magazine holds fifteen .22 long rifle; seventeen .22 long or twenty-one .22 short cartridges. Full size, oval military style stock with pistol grip. Positive, self-cocking bolt action. Independent safety. Takedown.

Model 84 — .22 caliber Bolt Action, Clip Magazine Repeating Rifle. Detachable clip holds five .22 long rifle; .22 long or .22 short cartridges. Well proportioned, full size stock and forestock for steady holding. Self-cocking, bolt action with independent safety.

Model 15 — .22 caliber Bolt Action, Single Shot Rifle. The lowest priced lightweight "22" in the field. Bolt action rebounding safety lock prevents accidental discharge. Positive ejector — double strength extractor

Model 87—Semi-Automatic .22 caliber Rifle. Lightweight, fast handling. Shoots 15 shots as fast as trigger can be pulled. Also, instantly adjustable as single shot or bolt action repeater, shooting .22 long rifle; .22 long or .22 short cartridges. Simple, positive action — can be completely disassembled without tools.

Stevens Models 86S - 84S - 87S; same as above with No. 150 Micro Peep Sight with Hooded Front Sight illustrated above.

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First in Quality

Model 6 — .22 caliber Auto-Loading Rifle — shoots 15 long rifle cartridges as fast as you can pull the trigger. Also, instantly adjustable as bolt action repeater; shooting .22 long rifle; .22 long or .22 short cartridges. Full pistol grip. Stock and forestock of selected walnut.

Model 5 — .22 caliber Bolt Action, Tubular Magazine Repeating Rifle. Magazine holds .22 long rifle; .22 long or .22 short cartridges. Plated bolt and trigger . . . quick ignition . . . positive extraction . . . man's size stock and forestock of walnut.

Model 4 — .22 caliber Bolt Action, 5-shot Clip Magazine Rifle. Chambered for .22 long rifle; .22 long or .22 short cartridges. Full pistol grip. Stock and forestock of walnut — proportioned for steady holding. Smooth operating, sturdy bolt action. Recessed bolt face. Convenient, independent safety.

Model 3 — .22 caliber Single Shot Bolt Action Rifle. Shoots .22 long rifle; .22 long or .22 short cartridges, regular or high speed. Positive safety. Takedown. Full proportioned walnut stock and forestock.

Savage Models 6S - 5S - 4S - 3S; same with No. 150 Micro Peep Sight with Hooded Front Sight illustrated and described above.

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OHIO H.B. 246

Columbus, Ohio

Editor:

Re: Pending legislation in Ohio with reference to firearms (H.B. 246).

You have done an excellent job in publishing your recent bulletin with reference to the above bill of which I am the author. Many members of your organization have communicated with me. Several members of the American Legion and the Society of Former Agents of the FBI, of which I am a member, have also brought to my attention the undesirable things that could occur if this bill were to become law.

I have a great amount of respect for many of those persons who have written to me or telephoned me. While I am not one who will 'run from a fight' if I believe my reasons for the fight are sound, I certainly will not press for the passage of legislation when it has been demonstrated to me I have made a mistake.

My sole purpose in offering this bill was to make it more difficult for the 'hoodlum gun toter' to obtain, carry and use firearms and other weapons of a type which could be concealed upon his person. I certainly did not intend to harass the type of men who make up your organization, nor to harass other law abiding citizens who have as their hobby the collection of guns or the legitimate use of firearms.

Since it has been clearly demonstrated to me the above bill would work a hardship on persons whom I never intended to harm and further since it would create some problems which I frankly did not anticipate I am personally recommending to the House Judiciary Committee that action on this bill be indefinitely postponed. This will 'kill' the bill.

Again may I reiterate that my intention in offering the legislation was an honest effort to correct the problems arising out of the 'hoodlum' use of firearms and was not meant to affect the rights and privileges of the legitimate users of firearms. Personally I have no aversion to firearms properly used. As a matter of fact, I enjoy the firing and making a good score with the various types of side arms and other arms in common use.

In the spirit of fairness it is requested that you give the same publicity to this letter as you did to House Bill 246 on which even I, with the help of your organization, have taken a steadier aim and scored a bullseye.

JOHN J. FARLEY

ART AND NATURE

Fort Bliss, Texas

Editor:

On page 8, March RIFLEMAN, I read: "All in all, Jim's documenting should take care of any queries about that illustration on page 35."

Was that a challenge, pardner? If not, who in Arizona or New Mexico or any other hot spot told you that the bush in the foreground was a cholla? It ain't. A cholla *(Opuntia)*—there are a coupla dozen varieties and sub-species of 'em—is a jointed cactus. The common prickly pear is a member of the tribe except that its 'joints' are flattened. In the chollas the joints are cylindrical and jest a-bristlin' with thorns.

That there foreground bush looks more like a straggly ocatillo *(Fouqueria splendens)* than anything else. It *could* be a mighty sickly greasewood or creosote-bush but I won't hedge on any bets and I'll bet it's an ocatillo. Candle-cactus, some calls it, but it ain't a cactus at all or even related to the cacti, in spite of a very abundant supply of thorns.

How many other jaspers have good-naturedly called your attention to it?

HOFFMAN BIRNEY

● *See below for names of a few.*—ED.

Nogales, Arizona

Editor:

. . . you would have probably avoided a few stabs from your Arizona readers if you hadn't said anything about the cactus in the foreground. It is an 'ocotillo' and not a 'cholla' plant. . . . I have been roaming around in the desert dodging cholla for over ten years and once had the misfortune of falling into one. I wish that that one had been an ocotillo.

. . . I would say that it looks more like good old Arizona greasewood (*Sarcobatus vermiculatus*, if you please) than an ocotillo.

JACK H. TODD

Milford, Utah

Editor:

I've spent too many nights up with a pair of pliers pulling cholla spines by the light of a Coleman to be fooled by your jug-headed Brooklyn artist. If that is a cholla in the foreground, I should be glad to eat it, spines and all. I might let it go if you'll call it an 'ocotilla'.

WM. J. MCGINNIES

Brooklyn, N. Y.

Editor:

"Incidentally" . . . the gun in the lead illustration on Walter Rodger's story, page 35 is supposed to be a Marlin 336. No such animal with a *straight* lever.

ARNOLD HAYNE

Santa Fe, New Mexico

Editor:

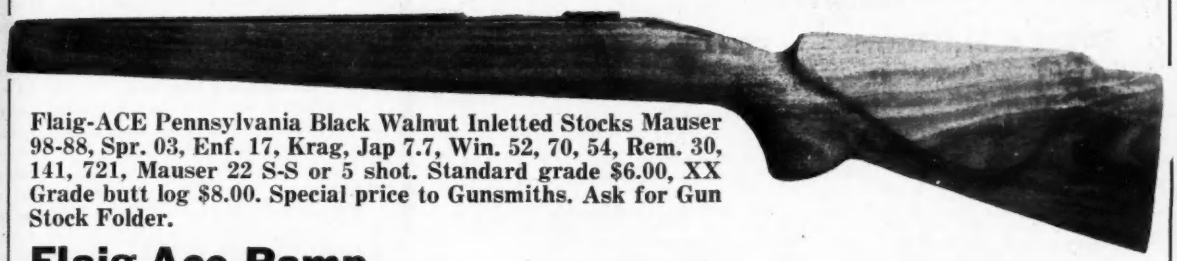
Reference is made to comments under the heading "Incidentally" in the March AMERICAN RIFLEMAN, about the source of the Pecos River in your Happy Hunting Ground article in the November issue. Perhaps it was my error, or it could have been the printer's anyway it is due simply to a misplaced comma and semicolon. There should have been a comma instead of a semicolon after the word 'mountains' and a semicolon instead of a comma after the word 'range'.

Correctly the passage should have read as follows: "There are six of these: The Mogollon Mountains, the headwaters of the Gila River; the Black Range; that high country mothering the source of the fabled Pecos; the White Mountains of Lincoln County; San Pedro Parks in Sandoval County; and Catron County's Blue River section."

ELLIOTT S. BARKER
State Game Warden

Flaig-ACE

PENNSYLVANIA BLACK WALNUT INLETTED STOCKS



Flaig-ACE Pennsylvania Black Walnut Inletted Stocks Mauser 98-88, Spr. 03, Enf. 17, Krag, Jap 7.7, Win. 52, 70, 54, Rem. 30, 141, 721, Mauser 22 S-S or 5 shot. Standard grade $6.00, XX Grade butt log $8.00. Special price to Gunsmiths. Ask for Gun Stock Folder.

Flaig Ace Ramp

complete g.b. or ivory **$6.00**
Special price, Dealers Lots.

NEW F-N actions with 30-06, 257, 270 Chrome Moly 24" sporter barrel fitted, white not blued...	$73.00
F-N actions with 220 Swift barrel or 22-250 cal. sporter or med. heavy, box shortened, white 25 in.	78.00
F-N Bolts stripped new low scope	12.50
F-N complete bolts new " "	22.00
All parts for F-N actions in stock. Spr. Actions complete $27.50 low numbers—Same with new 4 gr. Barrel fitted	42.50
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Win. 75 sporters Lyman 57R	55.50
Win. 52 sporters Lyman 57R	148.50
37 Ithaca's 16-12 ga, 20 ga	83.50
HD Hi-Standard 4½-6.3-4"	51.00
Ithaca 37S 20, 16 and 12 ga V Rib	160.00
Model 21 WIN Skeet 12-28" B-T S-T Select Ejec. new, ea.	252.50
M-12 20 ga. Cutts Skeet-Gun	132.00
Sav. auto 22 cal Model #6	30.25
720 Sav. auto 12 ga.	92.75
745 Sav. auto 12 ga	98.85
Rem. 1948 Sportsman Model auto 12 ga	99.00
Rem. 81 auto 35 cal rifles	129.50
69 Win T. 85 A.R. sights	27.00
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Win 62 22-cal Short new	39.75
75 Win Target 22 cal, new	54.50
45 Colt auto Com. 38 Colt Super	65.00
Colt Woodsman 22 cal 6" Target	75.00
S&W K-22 or K-38	65.00
38 S&W M&P 2.4.5.6"	56.50
22 cal HD Hi-Standard 4½, 6¾"	51.00
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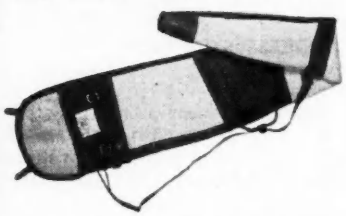
45 C.A. & 30-06 10% less per M. Colt 38 Super barrels, new	7.00
30-40 Krag paper cart., per 100	12.50

Ace Sheep Skin cases Hi-Grade $10.00

Sheep Skin Cases scope size $12.00



Primers 1½ 6½ 9½ Rem Western 8½, M Peters 12-20, 120 Win.	6.50
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Lyman Alaskan coated	60.00
Lyman Super Target 15X, 30X	90.00
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Weaver G4 $9.75; J2.5	22.50
Weaver K-6 $48.50; G-6	12.50
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CASE LOTS 1500 rounds $78.75

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257 Robts. Primed cases	$7.50-100
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Speer bullets 30 cal. 110 gr. 150 gr.	4.25 4.50
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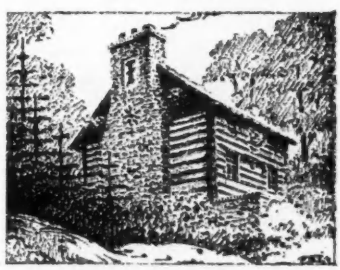

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Weaver K6, 6 power	48.50
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Weaver J4, 4 power	27.50
Weaver G4, 4 power	9.75
Weaver G6, 6 power	12.50
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Bausch & Lomb Prismatic Spotting Scope 60 mm Objective	95.00
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High Standard Model H-B .22 Cal. 4½ or 6¾" barrel	42.00
High Standard .22 Caliber Automatic Model HD-M, 4½ & 6¾ inch Barrel, Plain Grip	51.17
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High Standard Model G .380 Caliber Automatic 5 inch Barrel	55.00
Colt Official Police Revolver .22 cal. or .38 cal.	65.00
Colt Police Positive Special Revolver, .38 Special, .38 Police Positive or .32 Police Positive	65.00
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Unertl Varmint Scope, 6, 8 & 10X	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
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Litschert Spot Shot Target Scope, 1¼-inch Objective Lens, 10 or 12 power with Dust Caps and Recoil Spring	49.95
Fecker Target Scope, 1⅝ inch objective, 10, 16, 20 & 24 power	98.50
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(Prices shown include tax)

Bausch & Lomb Zephyr Light Hard Coated Lens	
6 x 30	186.00
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7 x 50 (not Zephyr Light)	210.00
Kollmorgan "De Luxe" Monette Monocular	49.50
Suede Case for above	1.75
Ray Ban Shooting Glasses	15.00

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Winchester M/70 Rifle, Std. Grade, open rear sight. .22 Hornet, .250 Savage, .270, .30-06, 7mm, .257 Roberts, .375 and .300 Magnum, .220 Swift	109.50
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Same, Lyman receiver sight	176.25
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Stevens Model 322 Bolt Action Rifle, .22 Hornet caliber	42.95
Savage M/99EG Rifle, open rear sight, .300 Savage & .250-3000	96.45
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827 14th ST. N.W. **PARKER-WHELEN CO., INC.** WASH. 5, D.C.

Dept. R

NOT ROAD BLOCKS

West Chester, Pa.

Editor:

In our state it is impossible for the Game Protectors to watch all the cheaters so it is the custom to set up checking stations along some of the main roads ("Road Blocks," February, page 4). These are not road blocks.

A State Trooper is used to direct traffic and also to chase a cheater if he decides to make a run for it (many of them do).

Sometimes when you are stopped you meet up with a fellow who is all swelled up with importance but these are few and you will find these kind of men in all walks of life.

. . . A couple of hundred wardens can't watch everything—you have to help them to help you. Turn in *every* cheater, they are not sportsmen! They ruin it for those who are and those yet unborn. There is lots more to hunting than just the killing—give the game a break, protect it, provide cover for it, feed it in winters like this, shoot crows and harmful hawks and keep an eye on its biggest enemy, the two-legged cheater, and you will have fun.

CHARLES E. TRAVIS, JR.

● *In general we agree with Mr. Travis' sentiments, but the situation complained of by Mr. Lauger was so bad that the Game Commission itself has undertaken a special investigation.*—ED.

AD REPLIES

Highland Park, Illinois

Dear Readers:

Why do so many of you, in answering ads, insist on signing your name and address in Latin—just like trying to read a doctor's prescription. Try writing English—or print it.

Also—don't send dinky little stamped envelopes when we advertisers ask for stamps—they won't hold big eight-page lists. And too, don't paste the stamps onto your letter—we advertisers expect to use them.

And—why not mention where you read the ad—give the magazine this break—and we need it too, in our reader analysis.

J. S. WHITE
An Advertiser

HANDLOADING

Bayside, N. Y.

Editor:

I belong to a top-flight gun club where a lot of the fellows reload. The trouble is that they all have different ideas. I have Sharpe's book on handloading, the B&M Handbook and the Ideal Handbook. I can honestly say that I've learned more from the last two issues of the RIFLEMAN.

THEODORE F. OCHS

ADDRESS STICKERS

Rome, New York

Editor:

I am an amateur photographer and think the covers of the RIFLEMAN are the best color covers I have seen. How about a little information on each one? Also, why can't the address be put on the back and not on the front cover?

C. W. RICHWINE

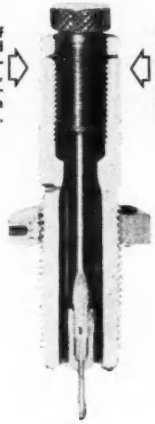
● RIFLEMAN *editors agree that it's a shame to spoil the front cover with an address sticker. However, the sticker cannot be put on the back cover because that space has been sold to an advertiser.*—ED.

HOLLYWOOD GUN SHOP ANNOUNCES

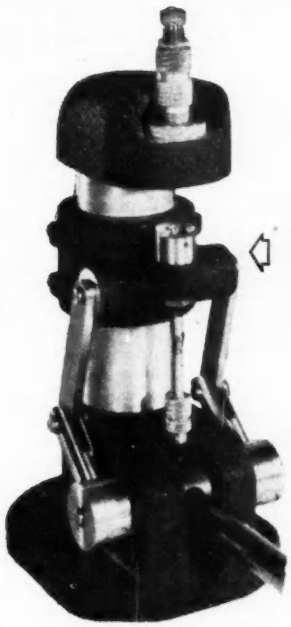
HOLLYWOOD RELOADING TOOL

The new Hollywood reloading tool is fully guaranteed. PATENT PENDING. Free literature. Discounts to dealers.

Cutaway view of the Hollywood full length resizing die complete, showing their advanced design and construction.

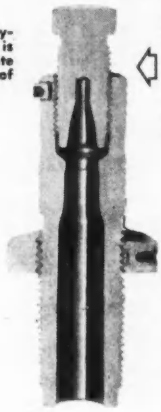


Hollywood dies in stock for 131 different calibers; other calibers continually being added. Write for latest die list.



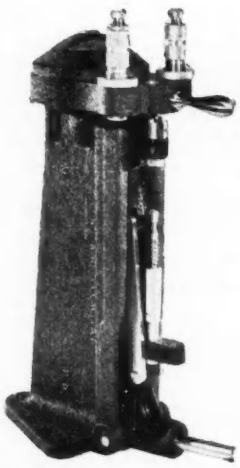
The Hollywood Tool is massive in design, with leverage and ease of operation for the most efficient method of reloading cartridges, or SWAGING bullets.

The new Hollywood Tool is $37.50, complete with one set of dies.



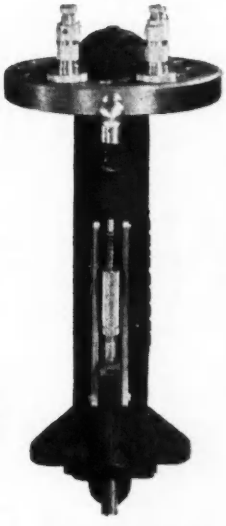
Cutaway view of the Hollywood bullet seating die complete. One set of dies, as shown, $12.50, includes resizing die and bullet seating die complete.

UNIVERSAL RELOADING TOOLS

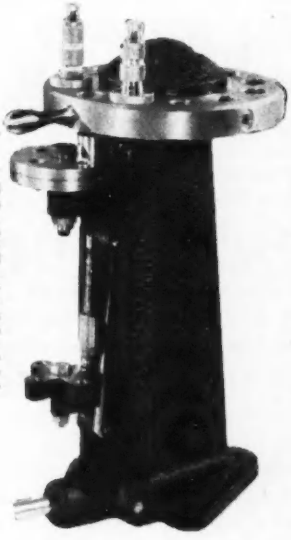


The Model "A" Universal Tool has a three position indexing turret head, holding any three dies in sequence. Complete for one caliber as shown, $47.50. Any parts of the tools to the right can be put on this model.

The Model "B" Universal Tool, same as Model "A" Tool, except that it has a twelve position indexing turret head, holding any twelve dies in sequence, complete for one caliber as shown $55.00.



This Model "B" Tool with added features, same as Model "B" Tool, except that it has rotating indexing shell holders and primer rod turrets, complete for one caliber as shown $68.50. Many tools can be added, such as: bullet puller, semi-automatic primer feed, and powder measure adaptor dies.



Discounts to dealers.

In Canada order through Western Scope Service,
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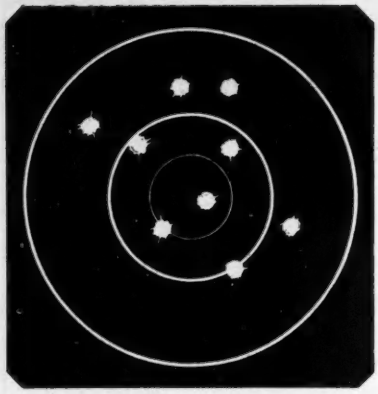
HOLLYWOOD GUN SHOP

LYLE S. CORCORAN, *Owner*

6032 HOLLYWOOD BLVD., HOLLYWOOD 28, CALIFORNIA



CLEAN & SHARP

at 100 yards
with the Mossberg, 20 power

"SPOTSHOT"
Spotting Scope

Everything you want in clean, sharp definition of .22 caliber bullet holes in the black at 100 yards.

That's what the "Spotshot" **$24.90** *gives you at only . . . .*

Another Mossberg top value!

All lens surfaces hard coated, increasing light transmission 34%.

STAND HAS UNIQUE ADVANTAGES

Note that design permits shooter to take prone position close up to scope without disturbing adjustment. Tube can be swung horizontally without losing vertical adjustment. Folds compactly to 10" x 3¼" x 3". *Can be used with any make of spotting scope.*

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Incidentally . . .

Did you ever receive a letter which you had known was as inevitable as tomorrow morning, but that you had hoped would take a long, long time to arrive? We got a message of that sort the other day. It told us that there will be no more letters from Pole Cat Creek. Bill Appleby is dead.

We had known for a long time who Appleby was, and that he was a sick man. His real name was Smith H. Lapsley, and he was a civil engineer with a pipe-line company in Tulsa, Oklahoma. As was evident in those peppery letters, Lapsley was the possessor of a brilliant, painstaking mind and a wealth of gun lore. Unfortunately, Lapsley had a bad heart . . . so bad, in fact, that he had given up shooting altogether. But firearms were still his first love and, along with some home-workshop tinkering, Lapsley kept his hobby alive via his typewriter, through those letters that were always signed *as ever youre friend (X) Bill appleby.* Appleby took us apart thoroughly, once a month. Nothing was sacred when the Sage of Pole Cat Creek started dictating at the suggestion of the blacksmith (b.s. fer short). Always, his letters went the rounds of the magazine staff, and before long they became regular features of the 'Richochets' column. Within a very few months, Bill Appleby's caustic appraisals of each issue had become one of the most popular features in the magazine.

We can't think of a better way to say goodby to Bill than to publish some final excerpts from those letters of his.—J. S.

☆ ☆ ☆

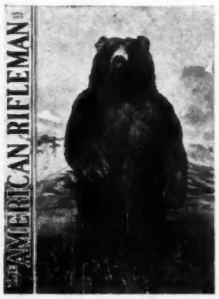
Thee b.s. he come up the other night to see what I had writ to you fer him a while back. I had my Ole woman ask the woman with the typewriter to make a carbon copey of what I sed but when I got it out he sed she had got the carbon in backards er somethin and what was writ was on the wrong side of the paper and all writ backards. he held it up in front of the looken glass out in the kitchen and read some of it. he sed she had left out a good many things he had told me to tell you. So I am just a layen hear a tellin it to my Old Woman an she writes it down as we go.

I have had an awfel time getten my old Woman in the notion of writen this month. fer a long time she sed iffen anyone wrote to you it would not be her. them fellers down to the general Store and P.O. they brang that book of yourn up here and she looked at that picture you fellers drawed of her and she got mightey all fired mad. She sed she figgered there were no more harm in her smoken a cob pipe like she do than fer them littel flapperdiddles up where you are to all smoke cigarettes like she heared they did. She sed what made her mad was the way you put it in the magazine an blowed it all over the country. she said you sure ripped your britches with her when you done that. enyway thee b.s. sed for me to tell you fellers they was too kinds of head space one kind bein in the gon barl and one kind under the hat. he sed maybe a littel head space was o.k. fer some expert to shoota few experimental shots with but as a stedy diet fore long you would run acrost a old brittel cartridge and get inta troubel. he sed they wasnt nothen so plumb

disconcerten as getten a shota hot gas in your face when a cartridge let go and busted from too mutch head space. he sed when he run acrost anyone as was wanten to monkey very mutch with loose head space he figgered they was some head space under the hat too. i kind of figgered you would want to know what thee b.s. sed as we figger he is purtey dern smart down here. My Old woman sez she has not got any

moore time to be foolen with mee at present but will have to take what she has got writ down up to the woman with the typewriter and get it fixed up so you can read it better and that iffen what she has got writ down wont explain it to you thay aint no usa wastin no more time on to you.

as ever youre friend Bill Appleby (x) His mark.



COVER

The largest variety of bear in the world is found on the North American continent, and the greatest number of these are located in the northwestern area of Alaska, the Yukon, and British Columbia. Naturalists are reluctant to say which specie is the largest, but the male of the Alaskan brown bear (Ursus gyas Merriam) found on Alaska's Kenai Peninsula, pictured on the cover, will compare favorably in size with any other bear. On page 39 William Wakeland discusses the gun used in hunting the Alaskan brownie. The Kodachrome from which the cover was made was furnished by the American Museum of Natural History and pictured is a detail of an exhibit group in the Museum.

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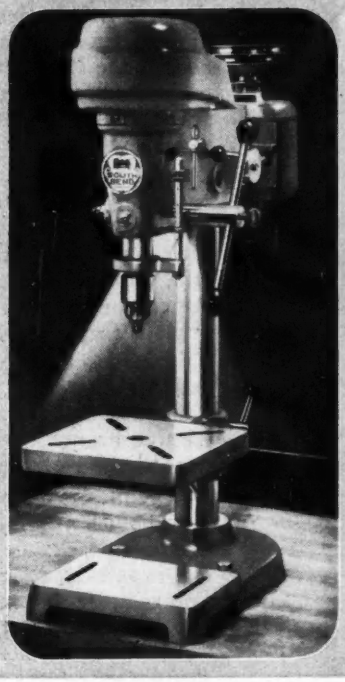

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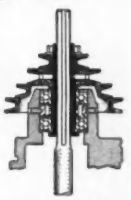

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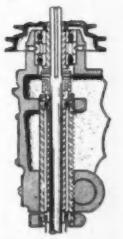

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CHIPPED KEYSTONE

We are coming to the end of the biennial sessions of the state legislatures. Fresh in mind are the multitude of legislative proposals which they have been asked to consider. The picture is discouraging to anyone who firmly believes in that basic principle 'government by law, not by men', which is the keystone of the arch of our democracy. For three centuries Americans have sacrificed life, limb and wealth to establish and maintain that principle. The sacrifices have been made to insure that Americans will be governed by laws approved by a majority of the people after full and free debate, not by edicts issued out of star chamber sessions or as the result of the star-gazing theorizing of any individual or minority group.

To insure government by law, not by the whims of men, our founding fathers divided our government into three distinct and independent branches. They provided (1) the legislative branch to *make* the laws; (2) the executive branch to *enforce* the laws; (3) the judicial branch to insure the citizen a *fair trial* under the law. This complete separation of functions is the keystone of American democracy. As the clear line of distinction between the three is erased, the American ideals of government are erased in direct proportion.

Take a serious look at government in America today. From city council to federal Congress, from city traffic bureau to federal Interstate Commerce Commission, the trend has moved far in the direction of abdication by the legislative branch of its lawmaking powers by granting to the law *enforcement* branch the right to make the laws which they then enforce.

The plea is 'more efficiency'. The legislative processes are too slow. There is too much argument about what is good for *all* the people when *all* the people are given a chance to express themselves. We should be happy to be ruled by the experts in each field. (Some sage long since defined an expert as 'one who knows more and more about less and less'.) This plea for efficiency is only too well, and too tragically, known to students of the history of democracies. "Sacrificed to efficient government" is chiseled deep on the tomb of every dead democracy of the past four thousand years. Mussolini and Hitler climbed to power on that old familiar plea. The hypocrites in the Kremlin admit to only a temporary dictatorship because the masses are not yet educated to conducting an *efficient* democracy. Meanwhile only the experts know what is best for the plain people!

This year, more than ever before, in city councils and state legislatures the elected representatives of the people have listened to the siren call of the 'expert'. Because a law *enforcement* officer wants an anti-gun bill it must be good. Because a game commission wants more power to make its own laws (then enforce them) it must be right. (Aren't they 'experts'?) Thus the keystone of the arch of American democracy is being chipped away.

It is time for American lawmakers to ask themselves, "Are all the serious students of public problems—all the brains in this country on the public payroll?"

It is time for American citizens to seriously ask themselves, "Do I want the American ideal of government with its relative 'inefficiency', plus my freedom, or do I want 'efficiency' in government, minus my freedom?"

A noted historian,* describing the fall of Rome, says: "Any symptom of energy, of freedom of mind or enterprise was repressed by civil servants, more and more dominant *as taxpayers lost heart and spirit*. It is possible for people to be *too* well-governed."

Think it over, Mr. Voter, Mr. Councilman, Mr. Legislator.

---

* T. R. Glover, "The Ancient World."

C B Lister

Free-rifle Shooting — REBORN

By ARTHUR C. JACKSON

A YEAR AGO the following ad appeared in the classified section of this magazine: "For sale—Two good 30-06 free Rifles with Set triggers, palm rest, Swiss butt plates." The four replies to it received by my friend Lawrence Nuesslein indicate the extent to which American shooters have drifted away from international free-rifle competition. Three of the replies either asked Nuessleir to ship a rifle direct or requested information as to how a free-rifle could be obtained without cost. At the time I thought it was a good joke but now I'm wondering why I laughed. It hardly seems possible that shooters in the United States, having practically dominated Olympic, International and Pan American free-rifle matches during the 1920's, could forget so easily. With the exception of the recent Olympics, 1930 was the last year in which the U. S. entered a team in international competition, winning the free-rifle championship in Belgium.

The U. S. teams of that era must have left a strong impression upon the Europeans because in conversation with various competitors at Bisley last summer I found that they expected great things from us. Captain E. Koch of the Swedish Olympic Team also told me that until recently a pinwheel shot on the 300-meter target was not referred to as a ten but as a 'Fisher ten'. It has been nineteen years since Morris Fisher of the Marine Corps competed for the United States and Europeans still haven't forgotten him! Now that U. S. shooters are again attempting a comeback in the exacting and highly competitive free-rifle sport, only the interest and initiative of match shooters can govern the time it will take to reach the top.

Experiences at the Olympic tryouts and at the Olympics themselves indicate that many American riflemen active in gallery leagues and on college teams are as proficient, basically, as the men who composed the teams sent abroad in the 1920's. In those days gallery shooting had only begun to take hold. Hundreds of additional well-organized clubs and teams have now brought to perfection the various positions which make up the gallery courses of fire. Scores have improved so much that not one individual record for a recognized gallery course which existed ten years ago still stands. Somewhere along the line, however, the use of free rifles was forgotten. This was partially due to the standardization of equipment for registered match competition and to the U. S. dropping out of free-rifle competition after the 1930 International match.

In the old days, with few exceptions, International and Olympic team members were military personnel, but such men as Walter Stokes, Lawrence Nuesslein, William Bruce and Harry Renshaw won recognition as top civilian free riflemen of the period. In 1930 Emmet Swanson and Frank Parsons (members of the 1948 Olympic Team), with college shooting as a background, made the trip to Belgium by beating out experienced International shooters for places on the team.

The use of a cushion under the instep in the kneeling position, though disliked by some shooters, is allowed in International competition. Shooter is NRA president Swanson

AN OLYMPIC SHOOTER OUTLINES WHAT AMERICANS MUST DO TO REGAIN DOMINANCE IN INTERNATIONAL RIFLE COMPETITION

Shooters who would become proficient with free rifles should realize that it will take more than .30-caliber shooting to make the grade. Gallery work is a definite prerequisite. It is the gallery shooters, in my opinion, who are the nuclei of future teams. It isn't easy to master the positions which make up the free-rifle course of fire and it takes time, therefore gallery shooters have an advantage over the prone enthusiasts.

Marksmen who have confined their activities to prone matches have considerable work ahead of them. Descriptions and photographs will not solve the problem of kneeling and standing positions. All they do is offer leads—something to start with and to practice with. Practice must not be restricted to one night at the range but to the living room floor as well. It is there that various positions should be tried, discarded or improved, until a suitable one is found. In this way much time can be saved when you are at the range. Position matches, regardless of the type of rifle, would be of great benefit to aspiring free-rifle shooters if they could be included in outdoor match programs.

The first serious thoughts concerning the Olympics occurred to me during the winter gallery season of 1947-48 when I was doing well in league and registered competitions. My shooting was begun on a gallery range and I still enjoy it, so the choice of which team to try for, the 50-meter prone or 300-meter three-position, was a simple one. The only hitch was that I had never fired a free rifle, a privilege that I'm still looking forward to.

The closest that we come to a free rifle of American manufacture is the Winchester model 70 bull gun, which is what I bought—in .30-'06 caliber. I had fired high-powered rifles before the war and from experience I knew that our service ammunition left much to be desired for use on the International target. Commercially loaded International Match ammunition was not on the market so reloading was the only solution if accuracy was to be obtained. Reloading and I were total strangers but I picked up a complete outfit in a trade, which resulted in a formal introduction. It was with satisfaction and pride that I took my first handloaded cartridges out to the 200-yard range. Accuracy wasn't too good with them but the second and third trips—and additional handloads —produced better results. Good bullets were and are still a problem, but friends are wonderful people and I found myself with a quantity of 173- and 180-grain boattails. The load that I finally settled for consisted of 36.9 grains of HiVel No. 2, Winchester 120 primers and the 180-grain bullet.

To conserve my best bullets I practiced kneeling and standing positions using cartridges loaded with 150-grain flat-base military bullets. Incidentally, the 200-yard decimal target is excellent for practice purposes. Rather than undertake to learn to shoot with palm rests and adjustable buttplates, I stuck to the NRA hip-rest standing position which is familiar to all gallery shooters. In the Olympics, my average of 85½ for the forty-shot standing stage was, surprisingly enough, higher than two of the Swiss and two of the Norwegian scores. This is mentioned only to indicate that the position in use in this country today is not entirely outclassed.

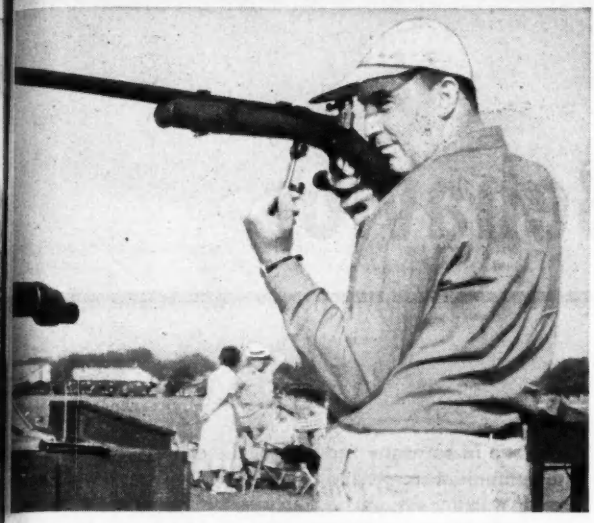
Because of a lack of .30-caliber matches the great majority of American marksmen use .22 rim-fire rifles exclusively. The transformation to the high-powered rifles for position shooting, however, should not be difficult for the .22 shooters. Europeans shoot the 50- and 300-meter courses with two rifles that are practically identical. There is no reason why Americans cannot do the same. The heavy weight of our center-fire rifles, and the low velocity of the ammunition used in free-rifle shooting, keep recoil from being bothersome. Our .30-'06 service ammunition, as you know, contains 50 to 51

Frank Parsons (above) and Swanson, members of the 1930 Internationa team, were only U. S. shooters to use rifles with set-triggers last ye

There is no arm of American manufacture similar to the rifle used by E Grunig, of Switzerland, who won 1948 Olympic 300-meter free-rifle even

grains of powder, which is a heavier load than the 36 to 37 grains used in the International Match cartridge. An opinion shared by the 1948 Olympic squad is that the lower velocity ammunition (2200 feet a second) is good, even though representatives of other countries used ammunition of higher velocities. Had our team been supplied with freshly loaded ammunition (Swanson and Parsons used 1930 issue), the results possibly could have been better.

The target rifles used by European and South American shooters look strange to most of us because they are designed for position use and not for prone exclusively. It is interesting to note that, although each country has a rifle of their own design, a favorite among the Europeans is the match rifle made by the Estonians. The noticeable differences in all rifles, other than the adjustable buttplates and palm rests, is the stock and trigger design. The stocks are of the 'thumb hole' design which allow a straight pull of the trigger, pistol fashion. The most important function of the stock, however, is its support of the hand and wrist in kneeling and standing positions. Thumb-hole stocks appeared on many ranges in this country ten or more years ago but they never became popular.



Larry Nuesslein, of Allentown, Penna., was Olympic smallbore winner in 1920, during years the United States dominated international competition

Arthur Jackson used this floorplate attachment in place of the conventional palm rest on his .30-'06 Winchester model 70 bull gun in 1948 Olympics

Triggers have always been a debatable topic in free-rifle us, but I saw only two set-triggered rifles at Bisley, excluding the Haemmerlis used by Swanson and Parsons. The trend seems away from set-triggers and toward a single trigger capable of holding very light adjustments, which are usually under a pound. Adjustable buttplates and palm rests are of various designs but they suit the individual and that's what counts. Photographs of the odd-looking but efficient 'fishtail' palm rest used by the Finns appeared in the article "Olympic Equipment" (RIFLEMAN, November 1948), along with the Swiss block design which has grooves cut out to fit the fingers.

Adapting our target rifles to permit the use of accessories allowed in free-rifle rules is much simpler than many people realize. Custom jobs are ideal but they are expensive and not necessary. My temporary conversions cost less than two dollars, plus a little work on my part. The trigger pull of my Winchester 70 was lightened to two pounds and it holds that adjustment very well. When the gallery season is over I'll adjust my model 52 in the same manner. Both rifles make use of the same rear sight—a Redfield Olympic. The comb of the stocks are built up for the prone position with detachable cheekpieces that are very comfortable. Several years ago I tried a commercial non-skid rubber buttplate and now I wouldn't be without one. My positions are not tight in relation to sling tension and these rubber plates stay put.

The NRA standing position and I are so accustomed to each other that the use of a palm rest bothers me. In its place I have substituted a rectangular block of walnut which is attached directly to the floor plate. In use, the rifle is supported by the thumb and base of the index finger, and by sliding my hand forward or back I can correct elevation. I have also devised an L-shaped buttplate from 1/8-inch sheet steel, with the curve a few inches below the toe of the stock. By changing the wooden strips that fit the inner surface I have my elevation corrections for a more comfortable position. Additional support from the pistol grip is obtained by extending the grip 1/4-inch and attaching an oversized cap. This braces my hand and wrist in the same manner that a thumb-hole stock would. These adaptors can be switched from the Winchester 70 to the 52 without difficulty.

Free rifles for international use should not be confused with Schuetzen rifles. The confusion is understandable due to the lost interest in free-rifle shooting. In some respects the two are similar, but Schuetzen rifles are without restrictions and they are used in the standing position only. Free rifles must not weigh more than 19.8 pounds and metallic sights are used—no telescopes. Otherwise anything goes, as far as stock shapes and accessories are concerned, on high-powered rifles as well as .22-caliber rim fires. The standard course of fire with either rifle consists of 40 shots in each position, prone, kneeling and standing. Range distances are 50 or 300 meters, depending upon the rifle in use. Time limits are two hours for prone or kneeling and two and a half hours for the standing position.

Every game or sport must have its rules, and through the years the International Shooting Union has perfected theirs to meet conditions. We ran into a snag at Bisley over the legality of our jackets, gloves and slings. It resulted in a hurried cable to the National Rifle Association in Washington for acceptable replacements. They obliged by sending the carton of jackets and slings via air mail. After the matches were over the rules on shooting jackets and gloves were modified to legalize coats and gloves of the 10X type. Rifle slings must not be more than 4 centimeters across their widest point and may be used in prone and kneeling positions only. A rule that required the use of a 15- or 25-centimeter cushion under the instep when in the kneeling position (see illustration on page 13) has been modified making its use optional. Sitting on the side of the foot is again permitted. For those who have not tried the cushion there is a surprise in store. Some may find it a benefit and others will not. To me it not only looks uncomfortable, it is. Oddly enough, I can hold exceptionally well when I use it, even though my left hand must be drawn back to the floor plate of the rifle to bring the sights on the target.

Shooters who favor the prone position will find an occasional prone match on the International programs but not too often. It is, in my opinion, a step in the right direction. I like all forms of rifle competition and I'll enter any match if it's possible for me to attend, but I'm losing interest in the steady diet of prone shooting encountered at all small-bore tournaments, including the regionals and Nationals. There must be others who feel the same way because too many good riflemen are passing up outdoor matches because of the lack of more diversified competition. Also, small-bore prone shooting has become too mechanical. *(Continued on page 44)*

Bullet Behavior

A TRIP THROUGH WINCHESTER'S 'TRANSIENT PHENOMENON' LABORATORIES . . . ANOTHER IN THE RIFLEMAN'S SERIES OF PICTURE STORIES ON AMERICAN ARMS MANUFACTURE

As is true in so many industries, the manufacturers of arms and ammunition received a generous boost from developments born of wartime necessity. Perhaps the finest example of that trend is at New Haven, Connecticut, where Olin Industries has built a fabulous laboratory for the study of 'transient phenomena'. In simpler words that term means the study of objects in motion—what happens when the trigger of a rifle is pulled and the cartridge primer ignites under the blow of a firing pin. With equipment that would exhaust the descriptive powers of a Jules Verne, today's ballisticians can photograph almost any aspect of a weapon's firing cycle at any predetermined micro-second of its progress. No longer dependent on theory or 'educated guessing,' today's arms and ammunition are solidly based on the evidence of photographs and records that would have been impossible a short time ago.

The four photographs at the top of these pages are typical of the kind of research which goes on in a modern ammunition plant. Here game bullets, long a mystery as far as actual performances are concerned, are put through their paces by being fired into blocks of flesh-like gelatin. High-speed X-ray photographs, timed at split-second intervals, record the progress of 180-grain Silvertips, fired from .30-30 cartridges, as they mushroom their way through the gelatin block. With the help of the enormous machine shown on the right, pictures like these reveal for the first time the true action of a game bullet as it penetrates the body of an animal.

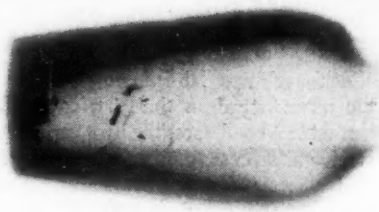
The equipment necessary for these X-ray tests at Winchester includes a specially-constructed X-ray machine of 360,000-volt capacity and a tube powerful enough to make a complete exposure in less than a millionth of a second. During that split instant of time, Olin's giant X-ray machine burns up electrical power equal to the demands of St. Louis!

In addition to these X-ray studies of bullets in action, Winchester's lab digs out data on the behavior of bullets and shot charges in the gun barrel, and on the amount of strain a rifle undergoes at the instant of firing, plus highly accurate figures on such things as velocity and recoil energy. For pictures of more of these tests, turn the page.

Film holder is placed in position behind gelatin block, preparatory to taking high-speed photograph of a game bullet in action. Aluminum plate protects the film from fragments, but permits easy passage of X-rays

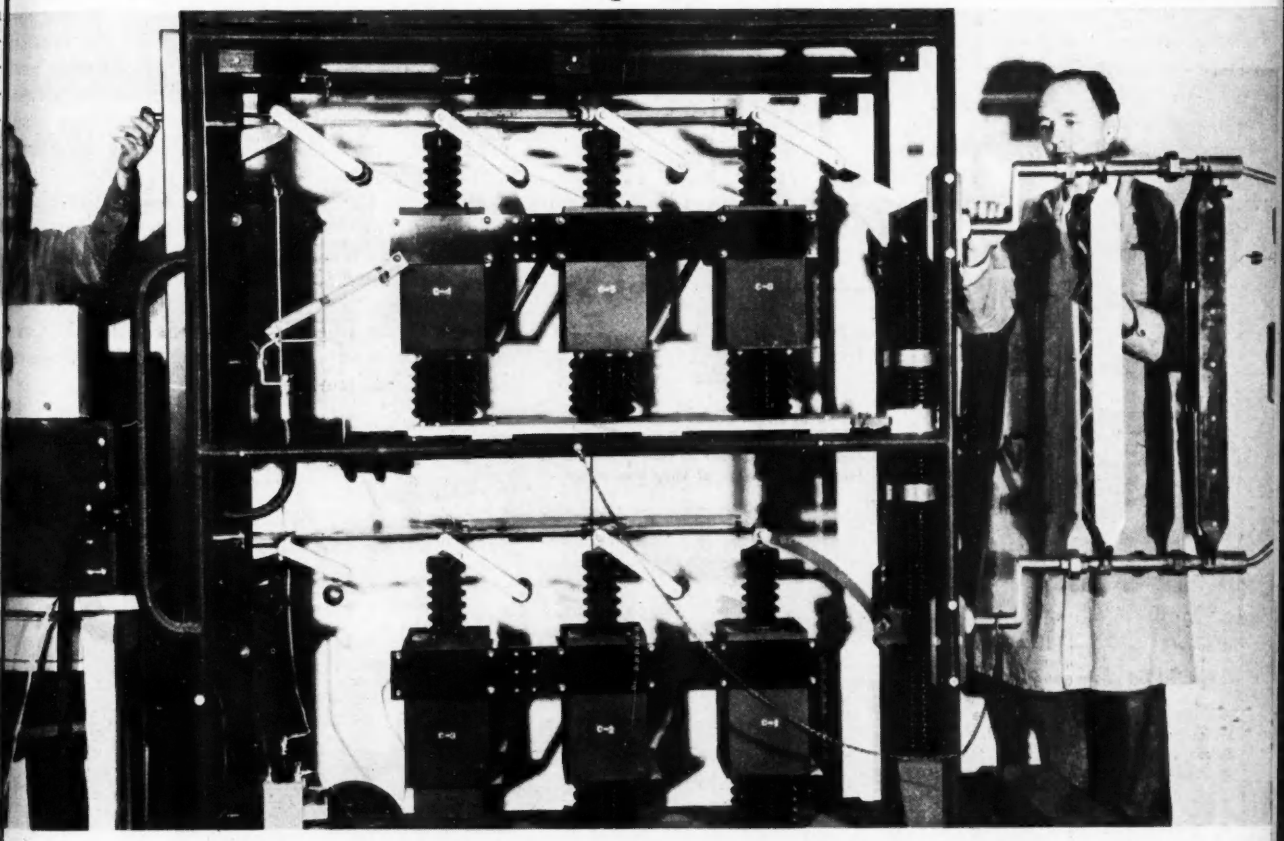
This .30-30 Silvertip bullet is traveling at 1900 feet per second. The oblong body is gelatin, which reacts similarly to flesh

Halfway through gelatin block, bullet has already opened up 'impact cavity'. Dark objects are lead 'washed' from bullet



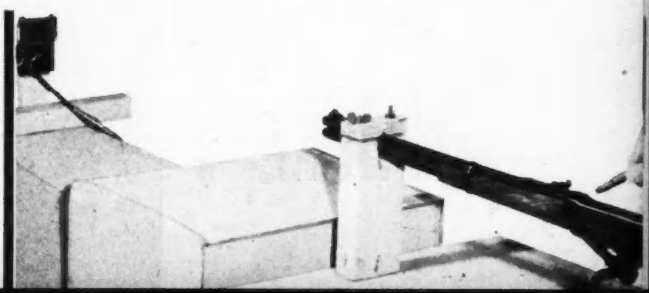
Bullet is about to emerge from gelatin, and mushrooming of nose is now clearly defined. Behind bullet, cavity continues to enlarge

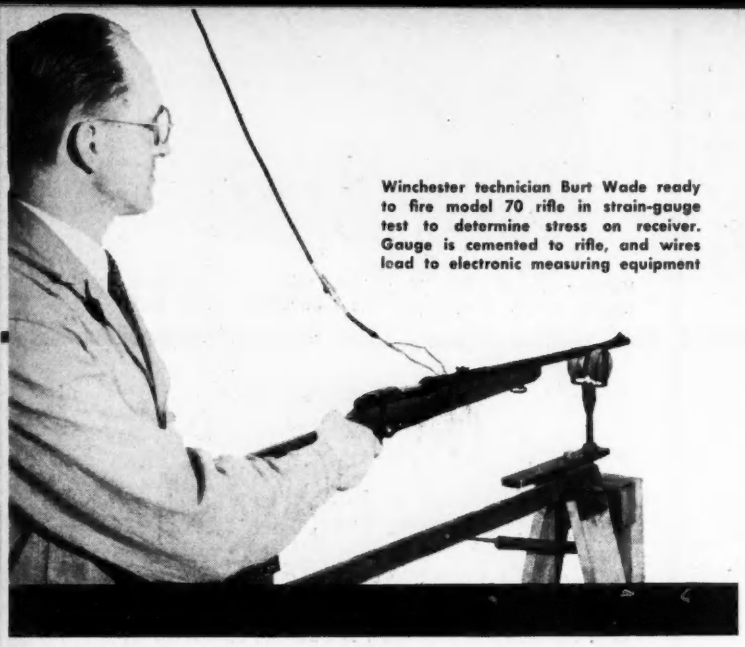
Here bullet breaks free of gelatin. Impact cavity does not reach maximum size until bullet has traveled another 10 feet



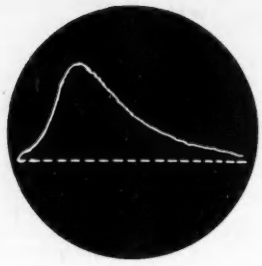
Enormous power demands of Winchester X-ray machine (above) obviously cannot be drawn from power lines, but must be stored up in advance. Six condensers, each charged to 60,000 volts, furnish current when machine is tripped. Condensers require only thirty seconds to store full charge

Here a cartridge is loaded into Winchester model 94 rifle for gelatin-block test. At left is one of two foil disjunctors through which bullet will pass on way to target, tripping mechanism for 1/1,000,000th second exposure. Gelatin block is placed eight feet from rifle





Winchester technician Burt Wade ready to fire model 70 rifle in strain-gauge test to determine stress on receiver. Gauge is cemented to rifle, and wires lead to electronic measuring equipment



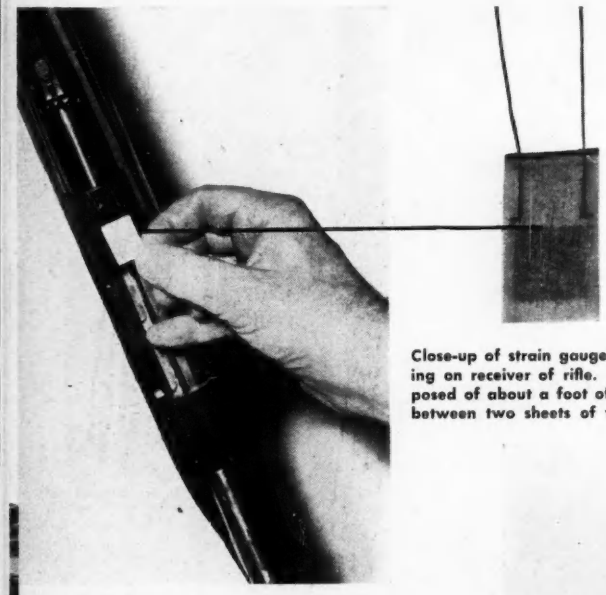
Stress curve on cathode ra tube. Strain at any point proportional to height of th line above base. Breaks base line indicate timi units of 1/10,000th secon

oscillograph

In Winchester's new lab it is now possible to measu the strain on a firearm as the cartridge is fired. T modern miracle is made possible by a cathode-ray oscil graph, which measures infinitesimal changes in the sistance of a piece of wire. Basically, this is how oscillograph test works:

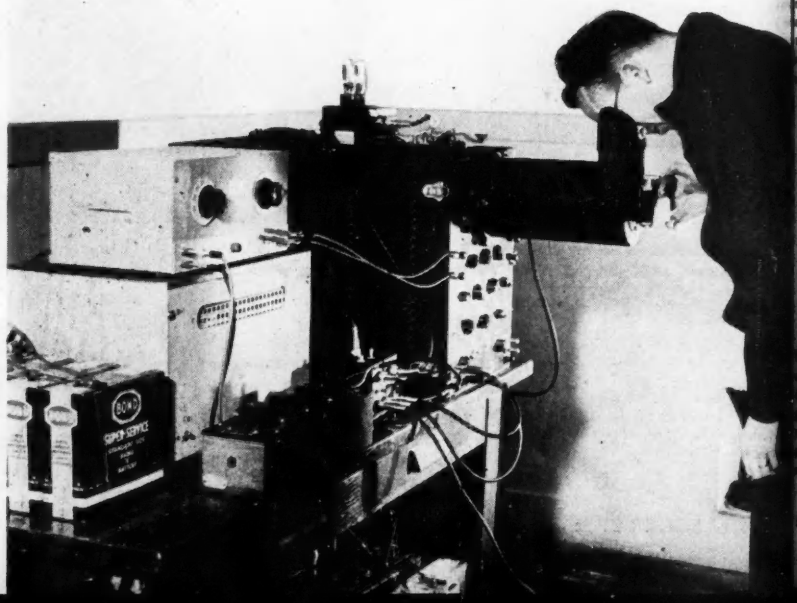
Metal always stretches under strain. The 'stret may be as little as 1/1,000,000th inch, but it does occ To measure that stretch, Winchester engineers cem a tiny strain gauge onto a rifle in such a manner tha follows any change in the metal of the rifle when i fired. As the fine wire in the strain gauge lengthens, electrical resistance increases. It is the effect of this min action on the electrical resistance of the gauge which picked up, amplified, and converted for measurem into a curve on a cathode-ray screen.

Before the gun is fired a neutral base line, with bre indicating 1/10,000th second units, appears on screen of the cathode-ray tube. When the gun is fi the stress curve flashes on the screen above the base l These images are photographed by a special 35-m camera rig attached in a light-tight housing to screen of the tube. The exact strain on the rifle can th be determined from this photo record.

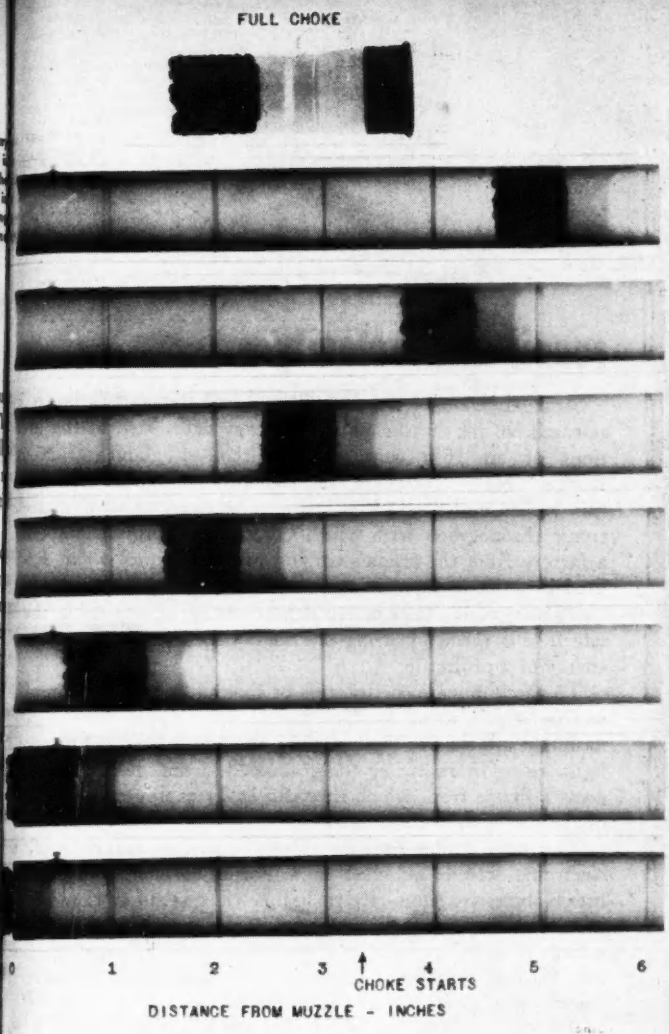


Close-up of strain gauge before cementing on receiver of rifle. Gauge is composed of about a foot of wire cemented between two sheets of very thin paper

SR-4 strain gauge, which is about ⅜-inch square, is cemented to upper side of receiver ring, where greatest stress occurs as rifle is fired. Care is taken to have wires in the strain gauge running in direction of maximum stress



Ballistic technician Merton L. Robinson peers into the light-tight housing which fits over the cathode-ray tube screen. Mirror in housing allows the operator to view time-dash record at exact instant of firing

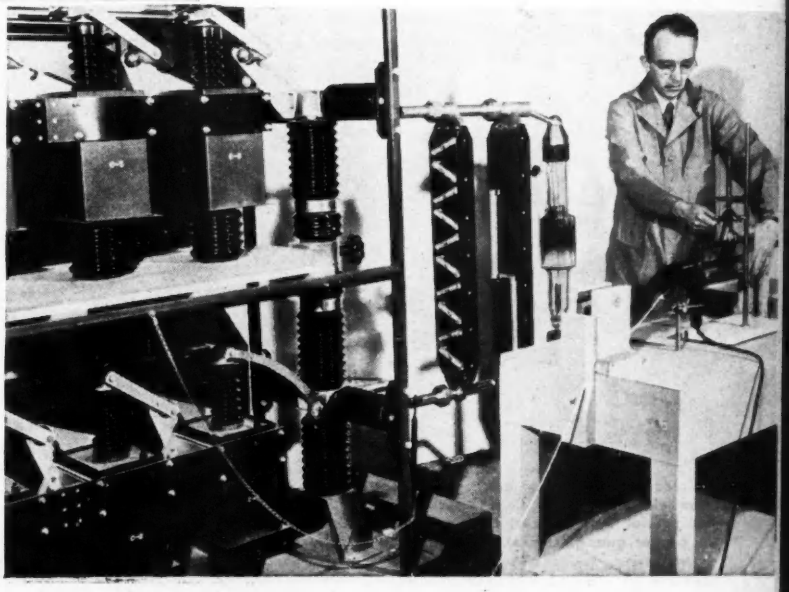


'up the barrel'

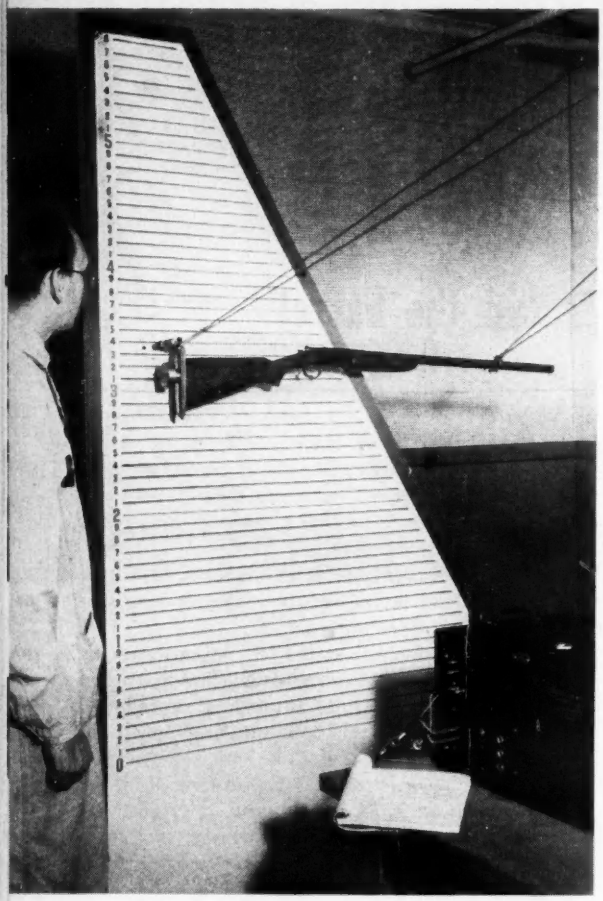
Most essential of Winchester's bag of tricks is their ability to photograph bullets and shot charges as they roar through a gun barrel. Made possible by the same fabulous X-ray equipment used to make the gelatin-block tests shown on page 17, this equipment reveals exactly what happens inside your firearm when you pull the trigger. By its use, Winchester-Western ballisticians have been able to learn things about bullet and shot behavior long suspected but never proved.

In the composite at the left, seven exposures have been grouped to show what happens when a shot charge is fired through a choke-bored shotgun barrel. Above is an X-ray photo of the unfired shot shell. The shot charge, compressed longitudinally at the instant of firing, continues at same length until it reaches the choke constriction. Then, as the shot mass travels further through the bore, its length increases as its diameter is reduced by the choke until, in the last photograph, it emerges from the muzzle of the gun. Vertical lines in photos are spaced one inch apart to indicate position of shot in barrel.

Flash X-rays at 1/1,000,000th second produced this series of pictures of a shot charge moving through the last six inches of a shotgun barrel. To make them, film holder is placed directly behind barrel of gun, and the X-ray tube is positioned on other side of the weapon. Operator, who must be protected from rays, fires gun by remote control from an adjoining room, where he is protected by a lead safety screen



A big X-ray machine can be tripped by a variety of electronic devices at the exact moment the picture is desired. Here a microphone, shown at right of gun, picks up noise of hammer fall to time the X-ray exposure. In this photo Olin technician Merton L. Robinson places film holder in position behind gun before making an exposure. Note size of X-ray tubes



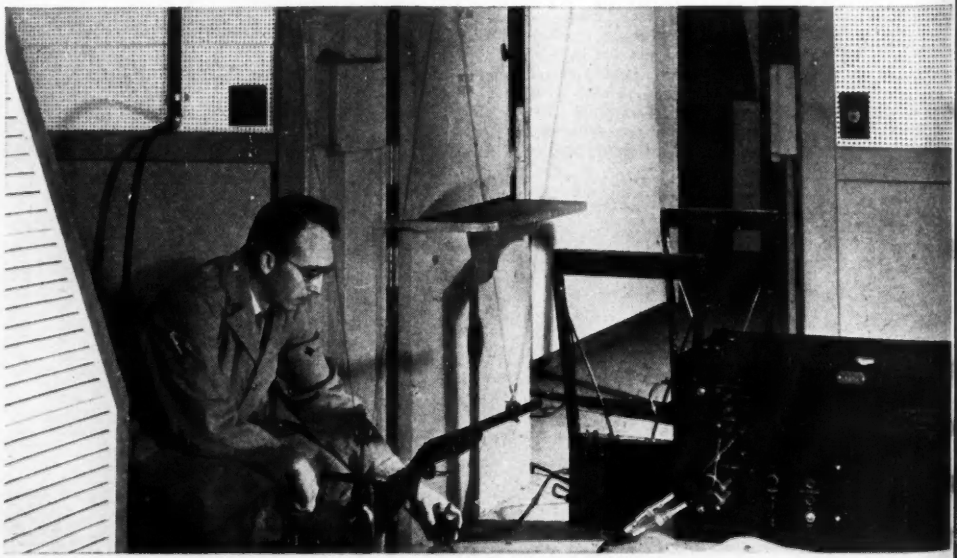
Pinpoint of light from flashlight attached to special buttplate indicates highest vertical point reached by gun. This height, times total weight of gun and pendulum fixtures, equals recoil energy in foot-pounds. Reading shown here is 3.36 feet

recoil and velocity

Strangely enough, the method used in Winchester's up-to-date research lab for measuring recoil energy dates back to the inventions of an 18th century ballistician—England's Benjamin Robins. Not so, however, the elaborate equipment with which they record bullet velocities at the same time. The Potter electronic chronograph with which Olin records projectile speeds is a far cry from the crude swinging pendulum into which Robins fired in order to estimate the velocity of cannon balls. In these two photographs, Winchester technicians are shown using the rig which tells them, by firing one shot, the exact speed and recoil energy of a projectile.

To check muzzle energy, rifle or shotgun is hung by fine wires so that it can swing backwards and up. Then, with a pencil flashlight attached to the buttplate, the gun is fired. The spot of light, rising in an arc up the graduated screen, gives the ballisticians a figure from which they can easily compute recoil energy of the gun-and-load combination.

The same bullet or shot charge, traveling on through the electronic screens attached to a Potter chronograph (below), breaks successive photo-electric beams which set in motion a counting device accurate to a minute fraction of a second. Then, from a bank of lights on the face of the chronograph counter, the operator reads a time interval figure which is converted into average velocity at a given distance from the muzzle. ◆ ◆ ◆



In order to minimize human element, gun is fired by special spring inserted in trigger guard. Operator burns string, which allows spring to press trigger

EVOLVERS.—DEANE and SON,
Gunmakers to H.R.H. the late Prince Consort,
20 KING WILLIAM STREET, LONDON BRIDGE,
riginal Patentees of the Deane and Adams Revolver, and since of Deane-Harding Revolver, beg to invite the attention of officers others going on Foreign Service to their latest improvements, which the revolver pistol can be used either as a breech or muzzle-ader at will, the weapon being thus rendered useful independently any special ammunition. Descriptive price lists on application 20 King William street, E.C., where also Guns and Rifles upon all e best systems of Breech-Loading can be obtained.

OLT'S New Patent CENTRAL-FIRE Cartridge REVOLVERS, while doing away with nipples and the use of , retain all the good qualities of the original Colt's pistol. By ans of a simple loading apparatus, the cartridge shells can be aded and fired as often as may be required. Interchangeable ple cylinders can be supplied with these pistols, which then can rwise be loaded with loose powder and ball. Price lists free.
Address,
COLT'S FIRE ARMS COMPANY, 14 Pall Mall, London.

from United Services Gazette, June 19, 1869

THE FIRST FACTORY alteration of the percussion Colt revolver for use with metallic cartridges was developed by E. Alexander Thuer, who took out his initial patent in 1868. Thuer was an employee of at least ten years' standing with the Colt Company and had been working on the development for several years. The need for a Colt arm which would take metallic cartridges had become obvious from the success of Smith & Wesson and other manufacturers in the field. As far as revolvers were concerned, the controlling factor was a patent taken out by Rollin White in 1855 on a cylinder in which the chambers were bored through from front to rear.[1] Rights under this patent had been acquired by Smith & Wesson, who utilized the cylinder for loading conventional rim-fire metallic cartridges. Validity of the Rollin White patent having been sustained in litigation,[2] all other arms makers were for the time being prevented from using a bored-through cylinder.

It is not contended that Thuer's was the first method developed for converting the percussion Colt for use with metallic cartridges. Specimens of more primitive systems which probably infringed the Rollin White patent have been found.[3] The Thuer was, however, the first alteration produced at the Colt factory which was patented and marketed openly. It had the particular virtue of dual-purpose design, permitting the use of either a regular percussion-cap cylinder or one loading from the front a rimless, center-fire tapered cartridge. The essential feature of the cartridge cylinder was a plate or ring which fitted and turned independently on a tube with a ratchet on its end formed by cutting down the cylinder back of the stops. The Thuer ring contained a rebounding firing pin and also a lever for ejecting the cartridges loaded by means of the regular loading lever. A turn of the ring with a thumb piece brought under the hammer either the firing pin or the ejecting lever.

While the initial patent of the Thuer system was taken out in the United States on September 15, 1868 (82,258), the British patent of December 31, 1868 (3981) is the more comprehensive. This was obtained in the name of Frederic A. K. W. Von Oppen, who was then in charge of Colt's London agency. It contains not only an elaboration of the specifications of Thuer's patent of September 15, 1868, but also a description of the cartridge-loading apparatus covered in the United States by his later patent of January 4, 1870 (98,529). The text of the American patents may be found in Haven & Belden's *A History of the Colt Revolver,* where the drawings are also reproduced.

The objective of the inventor and what he disclaimed is clearly stated in the American specifications. He defined as his primary aim a device whereby a revolver having a "cylinder capable of being loaded from the front" and "adapted for the use of loose ammunition can at small cost be changed, so that cartridges having primed metallic shells may be used". A further object was to provide "for the ejection at will of the cartridges . . . and also to provide against accidental discharge of the weapon". He disclaimed as a novelty "ejecting cartridge cases by blows of the hammer, either direct or transmitted to shells in chambers not in line with the hammer", and also "the use of a ring or plate at the rear of the chambers and containing the firing pin, when the said plate is not movable in such a way that the firing pin may be moved out of range with the hammer". The inference of the disclaimers is that their particulars were already known. The first was covered by a patent previously purchased by the Colt Company. Examples of the second are found in the primitive alterations already referred to, among which those with fixed plates were apparently in the public domain. This disclaimer may also have reference to another patent of Rollin White's taken out in 1858, which covered a detachable breech plate rotating with the cylinder and notched so the hammer struck through it.[4]

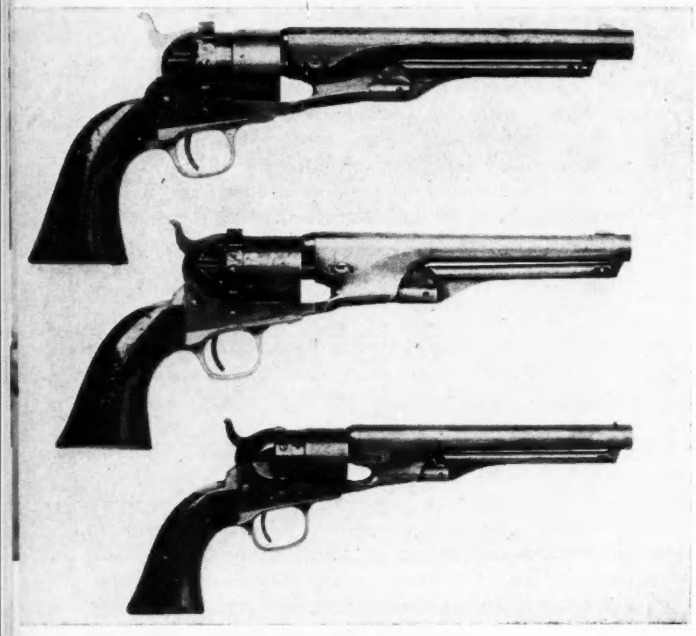
[1] U. S. Patent April 3, 1855, No. 12,648. See Logan, *America's First Cartridge Revolver,* RIFLEMAN, June 1948.
[2] *White v. Allen* and *White v. Baker,* 29 Fed. Cas. 969 (Dist. Ct. Mass. 1863) and 981 (Dist. Ct. N. Y. 1862). The decree of the Federal District Court of Massachusetts was affirmed Feb. 8, 1869, by a tie vote of the U. S. Supreme Court.
[3] Parsons, *Catalogue of a Loan Exhibition of Percussion Colt Revolvers and Conversions, 1836-1873,* published by The Metropolitan Museum of Art (New York, 1942), p. 33.
[4] U. S. Patent April 13, 1858, No. 19,961.

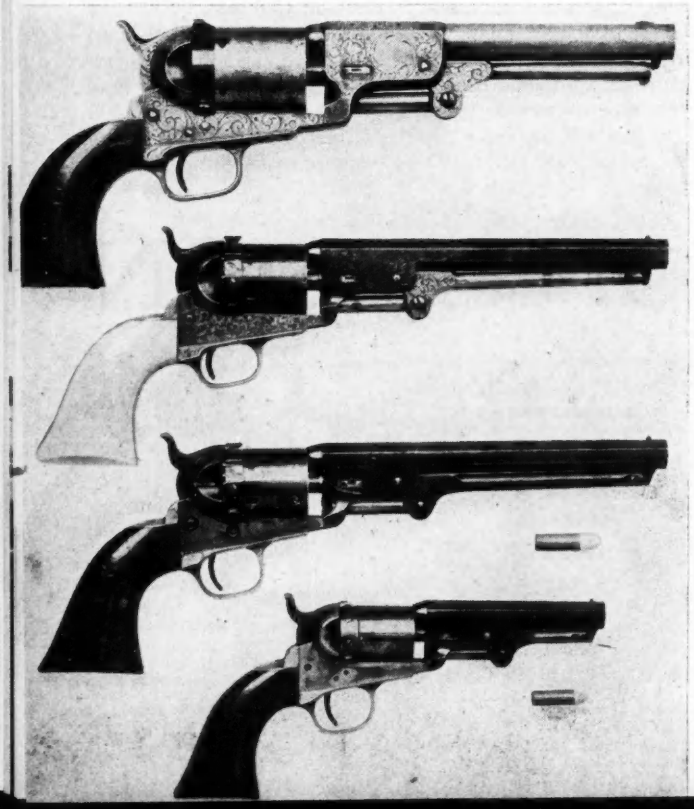
The THUER CONVERSION

By JOHN E. PARSONS

THESE INGENIOUS ALTERATIONS OF CAP-AND-BALL REVOLVERS, NOW RARE COLLECTOR'S ITEMS, WERE THE FIRST COLT CARTRIDGE ARMS

Left: Experimental Thuer conversion of the 1855 pocket pistol, now preserved in the Ulrich Museum of the Colt factory. Below: Thuer alterations of Colt percussion revolvers in the author's collection





It thus is seen that the Thuer conversion was an ingenious mechanism designed to avoid the restrictions of a competitor's unexpired patents and the result of combining another's patented idea with an adaptation of features already known. In essence, the free turning of the Thuer conversions cylinder ring was its novel aspect.

Interesting sidelights on the development of this device are cast by a diary preserved in the Arthur L. Ulrich Museum of Colt's Manufacturing Company. This journal was kept by Major General William B. Franklin, U.S.V., who became Vice-President and General Manager of Colt's in November 1865, following the death of Elisha K. Root. Entries of April 18 and 21, 1866, record a negotiation with Rollin White, who under his assignment of patent rights (November 17, 1856) to Smith & Wesson was entitled to a royalty of twenty-five cents for each pistol manufactured. White asked $200,000 for his interest and quoted S&W as asking $600,000. This was evidently too much. Under date of January 26, 1867, General Franklin noted: "Examined Theuer's [sic] alteration. Found it good in some respects. Another one to be made." On February 11, 1867, he again looked at the 'Theuer' alteration. Entries later that year indicate that Rollin White was seeking an extension of his patent of 1855, which would soon expire, and that a group of revolver manufacturers were opposing it. White meanwhile had sought to promote the purchase by Colt's of a pistol invented by Messrs. Poultney and Crispin "with a firing pin in each chamber." [5] Gen. Franklin was advised by counsel that this arm was in reality an infringement of White's patent for a bored-through cylinder, so that White's consent to its manufacture would be no protection against Smith & Wesson. In November and December 1867, other negotiations resulted in the payment of $7,500 to Stephen W. Wood for a "patent for ejecting shells by hammer." [6] A terse entry records that the negotiators "did not talk much with Crowell, who owns another patent for ejecting by hammer." [7] It is a loss to history that the diary ends with the year 1867. The courtesy of Colt's Manufacturing Company in permitting excerpts from it to be quoted is gratefully acknowledged, as is their helpfulness in making available the letters of Baron Von Oppen later referred to.

Neither Wood's nor Crowell's designs bear much resemblance to that of Thuer. They both had cylinders adapted to front loading cartridges, but with chambers permanently closed at the rear except for small apertures to admit the hammer. In Wood's system the empty cartridge cases were ejected by direct blows of the hammer, after the barrel had been turned aside. In Crowell's design, ejection was achieved

[5] British Patent June 1, 1867, No. 1625; see also U. S. Patent Oct. 3, 1865, No. 50,224.
[6] U. S. Patent Sept. 20, 1864, No. 44,363, assignment recorded Dec. 26, 1867.
[7] U. S. Patent April 7, 1866, No. 53,955.

This Thuer alteration of the cap-and-ball 1851 Navy Colt is cased with all of the accessories required for reloading the Thuer cartridges

by a sliding plate fastened to the side of the hammer and activating a thrusting arm. It was evidently necessary for Colt's to acquire Wood's patent because it was the first to cover ejecting by hammer, and thus anticipated the general principle of the Thuer system. Wood's assignment to Colt's, which included any future patents "for ejecting cartridges, or emptying cartridge cases from the chambers of revolving fire arms by intermediate devices operated by blows of the hammer," is recorded in the Patent Office. There is, however, no record that Crowell's patent was ever purchased, although the Commissioner of Patents on December 4, 1869, awarded it priority of invention over an interference filed by Wood.[8]

General Franklin's efforts were undoubtedly spurred on by newspaper reports of the Paris International Exhibition such as the following from the *Illustrated London News* of August 31, 1867:

> "Messrs. Colt exhibit a case of revolving pistols and rifles. These arms possess no special novelty, and indeed, are behind the age, in so far as they are none of them adapted for cartridges containing their own ignition; while on the Continent capping revolvers are as much out of date as muzzle-loading guns. Messrs. Colt have in some instances, fitted movable stocks to their pistols. If they would go a step further and adapt their pistols for self-igniting cartridges, these stocked revolvers might serve as useful arms for yeomanry regiments and various mounted corps.
>
> "Messrs. Smith and Wesson exhibit revolving pistols and cane rifles, adapted for pistol cartridges. They are the owners of an American patent (1855) which has seriously hampered the application of self-igniting cartridges to revolvers. By this patent Messrs. Smith and Wesson hold the right in America of boring the revolving chambers from end to end.
>
> "Although it may perhaps not be impossible to contrive a pistol adapted to self-igniting cartridges, the chambers of which are not bored from end to end, such an arrangement is necessarily a roundabout way of achieving what Messrs. Smith and Wesson, by virtue of their patent, accomplish much more simply. Thus makers of revolving pistols, desirous to go with the age and to abolish caps, must either manufacture under a license from Messrs. Smith and Wesson or must contrive some system which will render them independent of this patent, and which will yet be as cheap and efficient. To this cause we believe is to be traced the backwardness of Messrs. Colt in this matter. They are unwilling, as we understand, to purchase a license from Messrs. Smith and Wesson; and their efforts to accomplish the application of self-igniting cartridges to revolvers, without infringement of the patent referred to, have not yet met with the success which they are sanguine will ultimately crown them. In countries where Messrs. Smith and Wesson's patent does not hold the system of capping revolvers, as we have noticed, has entirely disappeared."

Notwithstanding all the efforts devoted to it, the Thuer conversion does not seem actually to have reached the public much before the expiration on April 3, 1869, of the Rollin White patent for a bored-through cylinder. In a letter from London of February 20, 1869, Baron Von Oppen reported to the Colt Company:

> "The conversion of Army pistols is well progressing—the two first ones altered worked well and are sold. As soon as we have loading fixtures for Navy pistols we shall at once begin their conversion . . .
>
> "At present we pay for the conversion of each pistol 2/6s, it being done by a working gunmaker quite close this office . . . We pay a further 6 d. per pistol for their conveyance to and from the Proofhouse . . .
>
> "I have made arrangements for having your new pistols advertized in the various Colonies and Eastern settlements . . . We have every reason to believe that these pistols will sell well in the Colonies where your nipple revolvers always were favourites.
>
> ". . . we do not think it well to advertize and bring the metallic cart. revolver to the notice of the Public in this country, till it has been submitted to the English Government, that they may receive and test the same as a novelty."

After the English Government had made a test of the new pistols, Von Oppen wrote on June 19, 1869:

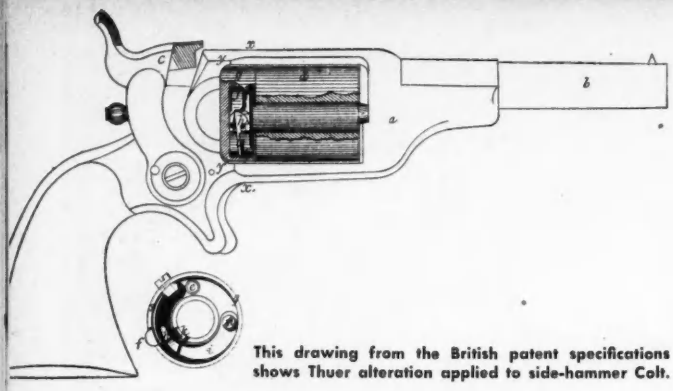
> "From the War Office we now have a letter briefly stating that 'It is not in contemplation to convert any of the Colt pistols in store into Central Fire Breechloaders.' Privately I learn that the Government trials with our met. cart. pistols were on the whole satisfactory, but that the War Department cannot spare money for conversion of their Colt revolvers in consequence of the stringent measures in retrenching the expenditures adopted by the present Government; that they wish to have but one model of pistol and cartridge in the Service, keeping to the Adams's double action breechloader in use with Col. Boxer's cartridge; finally, that they consider the Colt's revolvers on hand to be scarcely worth altering, being too worn out by long use.
>
> "This question decided we have no longer reason to postpone the intended trials with these arms in presence of experts, members of the press, etc."

These trials took place on July 10th, and were reported in *The Mechanics' Magazine* of July 23rd:

> "Some public trials were recently made at the Crystal Palace with the improved revolver and ammunition, and which clearly demonstrated their value. Accuracy and penetration were all that could be desired, whilst it was abundantly proved that with a pound or two of powder and a handful of caps, a man could keep himself well supplied with central-fire cartridges for a very long time. This improvement is a step in the right direction, and will add to the fame of the already far-famed Colt revolver."

Another technical publication, *The Engineer,* was not as enthusiastic. It reported in an issue of July 16th: "We have not seen the new system thoroughly tried, and therefore we cannot express an opinion as to its success, but at present we

[8] '69 C. D. 107.



This drawing from the British patent specifications shows Thuer alteration applied to side-hammer Colt.

are not inclined to think that it is the most simple contrivance that could have been suggested." This magazine later arranged a trial of the Thuer conversion at Woolwich Arsenal, with an Adams breechloader chambered for the Boxer cartridge as a basis of comparison. Its final verdict, after the careful notation "each arm was fired by its own representative" with "cartridges filled by Messrs. Eley Brothers," was:[9]

	ADAMS .45	COLT .44
1. Rapidity only (24 shots)	1 min. 32 sec.	2 min. 10 sec.
2. Rapidity and accuracy	2 min. 18 sec.	2 min. 55 sec.
3. Accuracy (mean deviation)	5.92 in.	8.29 in.

The London Times commented on these trials in its issue of October 21, 1869:

> "In a competition, therefore, carried through by representatives of the two makers, on Government ground, watched by professional experimentalists, and acknowledged to be absolutely fair by all parties concerned, the Adams pistol showed its superiority to the Colt breechloader in rapidity, accuracy, rapidity combined with accuracy, and penetration, the lowest percentage of superiority being 19 per cent, the highest 41 . . . The results of the experiments last week show that intending purchasers of new pistols will be wise to buy the Adams rather than the Colt, but that those who are already in possession of Colt's revolvers may be quite content with having them converted into breechloaders on the new system."

Whether there was ever a formal introduction of the Thuer in the United States has not been established. Enough examples without foreign proofmarks are extant, however, to indicate that it was sold here. That at one time it may have been under consideration by the Ordnance Department is suggested by a recommendation in Ordnance Memoranda No. 9, approved by the Secretary of War July 8, 1868, which stated:

> "The urgency of the service not demanding the immediate introduction of pistols adapted to the use of metallic primed cartridges, and experiments not having yet determined definitely which of the numerous plans of alteration proposed is the best, the Board recommend that, prior to the adoption of any one plan, revolvers altered on the two systems of loading at the front and rear of the cylinder, respectively, be prepared for further trials at the Springfield Armory."

Very likely because of the indifferent, if not unfavorable, reception of the arm abroad, the Thuer was not pushed or advertised in this country. Its merit of dual purpose design was but temporary, as were whatever prospects it had due to the uncertainty of Rollin White's patent of 1855 being extended. White's application was denied by the Commissioner of Patents on April 2, 1869, but a bill passed Congress which would have allowed a rehearing. This was vetoed by President Grant on January 11, 1870, on the opinion of the Chief of Ordnance that an extension would compel the Government "to pay to parties already well paid a large royalty for altering its revolvers to use metallic cartridges." Another bill was favorably reported by the House Committee of Patents on February 28, 1873, but failed of enactment.[10]

In all events, the Thuer was soon made obsolete by the appearance of the Richards conversion, patented on July 25, 1871.[11] Charles B. Richards, later professor of mechanical engineering at Yale, was then assistant superintendent of the Colt factory and his name appears as a witness on many of its patent specifications and drawings, including those filed by F. Alexander Thuer. Richards' conversion, unhampered by the Rollin White patent, provided for the loading of ordinary flanged center or rim-fire cartridges at the back of the cylinder. Its immediate success ended for good the Thuer conversion experiment.

Of the many factors militating against the popularity of the Thuer, the special tapered cartridge which it required was certainly one. Yet this among other factors has made it probably the choicest and most sought after alteration as far as collectors are concerned, though perhaps not the rarest. At least several hundred Thuers were actually made, judging from the special serial numbers with which their altered parts are stamped. The Thuer cartridge, incidentally, may now be even rarer than the arm itself.

From the patent specifications, it is evident that the Thuer alteration was designed for all models of the percussion Colt revolver currently being made, including the Root solid frame side-hammer. Adaptation to the latter is separately illustrated in the British patent drawings, and also described in the specifications. These call for a stationary ring in which a spring ejector may be released by a thumb piece so as to snap into each chamber as the cylinder is revolved. Except for the prototype in the Arthur L. Ulrich Museum (illustrated on page 22), however, no example has come to the notice of the author.

Specimens of Thuer conversions of the .44-caliber 1860 Army and .36-caliber 1861 Navy are perhaps the most common, and are not infrequently found bearing British proofmarks. These are the only models quoted in the London price list of "Colt's New Patent Metallic Central Fire Cartridge Revolvers." While the charge for converting an old pistol was £1 17*s.* 6*d.*, the price of a new Navy Thuer was the same, according to the 1869 London percussion price list, as that of a Navy cap and ball, and the Army Thuer was but five shillings more than its percussion predecessor. Metallic cartridges were quoted at one shilling to one and six more per hundred than paper ones.

Besides the 1860 and 1861 models, the author's collection contains specimens of Thuer alterations of the .31-caliber 1849 Pocket Model, the .36-caliber 1851 Navy and the .36-caliber 1862 Police Model. The cylinders of all specimens are chambered for six cartridges, which is uncommon in the case of the percussion 1849 Pocket Model and most unusual for the 1862. The 1849 Pocket, perhaps the rarest type of Thuer, is a dual-purpose specimen cased with an extra six-chambered percussion cylinder. With it the original serial numbers appear on the outside of the altered cylinder whereas with the 1862 specimen the cylinder is numbered differently than other parts. This cylinder may therefore have come from the hybrid model known as the "pocket pistol of navy calibre." The Thuer rings of both *(Continued on page 38)*

[9] Oct. 22, 1869. See also W. W. Greener, *Modern Breech-Loaders* (London, 1871), p. 156.

[10] Senate Exec. Doc. 23, 41st Cong. 2nd Sess. Vol. 1, Serial 1405; House Report 84, 42nd Cong. 3rd Sess. Vol. 1, Serial 1576.

[11] U. S. Patent No. 117,461. A supplementary patent on an improved ejecting rod was taken by Wm. Mason July 2, 1872, No. 123,644.

New M1 Course for Marines

By Captain Edwin Simmons, USMC

MARINES WILL FIRE fewer rounds for record this year but Corps Headquarters thinks the reduction will make them better shooters. The new M1 course calls for 50 rounds to be fired for record. The old course, in use since the Marine Corps adopted the .30-caliber M1 rifle as its standard shoulder weapon, near the end of 1941, was 68 rounds.

Under the new system of marksmanship training, there are really two distinct courses of fire. "A" course is for regular Marines and firing is done from ranges of 200, 300 and 500 yards. "B" course is designed for members of Organized Reserve units and all firing is from the 200-yard line. The courses were developed by Marine Corps Headquarters.

"The new courses are shooters' courses," says Lieutenant Colonel Walter R. Walsh, one of the country's best known shooters and head of the Marine Reserve target training program. "There was entirely too much rapid fire in the old course. We were developing trigger-jerkers instead of shooters. We're going back now to the prewar concept of making every round a well-aimed shot."

Captain Thurman E. Barrier, in charge of the Target Practice Division at Marine Corps Headquarters agrees:

"The new courses have 30 shots slow fire and 20 rapid. That just about reverses the previous ratio of 48 rounds rapid and 20 rounds no time limit."

Regular Marines firing the "A" course now begin at the 200-yard line with 10 rounds offhand at the "A" target (10-inch bull). From the same range 10 rounds are fired, standing to sitting, in 50 seconds at the "D" target (head and shoulders bull). From 300 yards, the shooter fires five rounds sitting and five rounds kneeling at the "A" target, no time limit. This is followed by 10 rounds in 60 seconds, standing to prone, at the "D" target. At 500 yards there are 10 shots slow fire at the "B" target (20-inch bull).

In order to shoot 10 rounds from the 8-shot M1, an empty clip is held in the chamber, two loose rounds are inserted, and the bolt allowed to go forward chambering one round. When these two rounds are fired the clip is ejected automatically and a fresh clip of eight rounds is loaded in the rifle. (The difficulty of loading loose rounds has been called one of M1's chief combat deficiencies, but this feature isn't too objectionable on the range. It will be noted that loose rounds will not be loaded against time.)

Qualifications for the new "A" course are 185 for marksman, 207 for sharpshooter, and 218 for expert, out of a possible of 250. The old course qualifications were 268 for marksman, 292 for sharpshooter, and 306 for expert.

The old course fired four rounds offhand, four kneeling, and four sitting at the "A" target slow fire from the 200-yard line. This was followed by 16 rounds, standing to sitting, and 16 rounds, standing to kneeling, at the "D" target, each with a time limit of 60 seconds. From 300 yards, 16 rounds, standing to prone, were fired in 70 seconds. At 500 yards the shooter fired eight rounds at "B" target with no time limit.

"The new course will make the designations *expert* and *sharpshooter* more realistic," says Captain Barrier, whose rifle and pistol shooting is well-known to RIFLEMAN readers. "The increased number of rounds fired offhand and longer range for the sitting and kneeling slow fire call for finer shooting than before. However, the shooter now has an average of five to six seconds for his rapid-fire shots. Before he only had four seconds. We're hoping he'll learn to use this extra time to line them up and squeeze them off."

"Positions are more important in the new course," says Captain Barrier. "Coaches will have to work harder to qualify their shooters but percentage-wise the results should be about the same. Of the five recruit platoons which have fired the course so far (as of January 31), the four at Parris Island had 73 percent of their shooters qualify and the one platoon at San Diego qualified an exceptional 96 percent. This indicates the year's total qualifications will average out to about the same as last year's 81.1 percent. In 1948, of the 52,167 Marines who fired the M1 for record, 23,310 qualified as marksmen, 13,552 were sharpshooters, and 5,480 were experts."

Regulations require that all Marines (women Marines, of course, excepted) under the age of 36 and under the rank of brigadier general fire for qualification each target year. Enlisted men fire for record only the weapon with which they are primarily armed. They are literally shooting for money because they receive five dollars extra a month for qualifying as expert, three dollars a month for making sharpshooter.

Generally speaking, men in the lower four pay grades (privates, privates first class, corporals and sergeants) fire the M1 for qualification. The first three pay grades (staff, technical and master sergeants) usually shoot the carbine. Other small arms with which Marines may qualify are the .45-caliber

pistol, .38-caliber revolver, automatic rifle, submachine gun and riot-type shotgun.

In addition to the record courses, there are abbreviated familiarization and training courses with other weapons as well as combat courses and field firing problems.

In all, there are 56 different ranges at which Marines can fire. The recruit ranges at Parris Island, S. C., and San Diego, Calif., are all-year affairs. The other big ranges, Quantico, Va., Camp Lejeune, N. C., Camp Pendleton, Calif., have good shooting weather most of the year. For some reason, perhaps better weather conditions, West Coast

The new Marine M1 course is designed to place more emphasis upon shooting than on trigger-jerking by reducing the number of shots in rapid fire

qualifications usually average ten percent better than the East Coast. Overseas Fleet ranges include Guantanamo Bay, Cuba, Pearl Harbor, Midway, Saipan and Guam.

Regular Marines usually spend two weeks each year on the range. The new courses do not change in any way the present training given in rifle marksmanship. Positions and sling adjustments remain exactly the same. On reporting to the range, Marines first turn in their rifles to the range armorers for a careful check. Then comes a busy schedule of training films, lectures, demonstrations, sighting and aiming exercises, .22-caliber rifle practice, and much, much dry shooting or 'snapping in'. There will be more emphasis on small-bore training this year. Actual firing begins before the end of the first week. First, of course, the shooters zero in at the three ranges. The course is then usually fired three or four times before it is fired for record.

The "B" course is specially designed for the Organized Reserve, which includes 34 battalions, 35 squadrons, and 61 separate companies and batteries. Both aviation and ground units get small-arms marksmanship training; the chief difference being that the aviation reserve units do their firing at local ranges while the ground units will include their range work in their annual, intensive two-weeks summer training at one of the major Marine Corps bases.

"The schedule is too tight to allow more than three days on the range," says Colonel Walsh. "Of course, this time is spent in actual firing. The reserve battalions have already completed much of their preliminary marksmanship training before they arrive at summer camp. To get the most out of time available, we've decided to do all firing from 200 yards."

In shooting the "B" course, Marine reservists will first fire 10 rounds prone slow fire at the "A" target. This is followed by five rounds sitting, five kneeling, and 10 standing, all with no time limit. Rapid fire consists of 10 rounds, prone from standing, and 10 rounds, standing to either sitting or kneeling, shooter's choice. Both rapid-fire strings will be delivered on the "D" target and both have a 50-second limit.

Time will be saved because the shooters will not have to fall back to the 300- and 500-yard lines. Also, there will be fewer target changes. In the "B" course there is only one change, from the "A" to "D" target. In the "A" course there are at least two changes, "A" to "D" to "B".

"Reserves will also save time in zeroing their rifles," says Colonel Walsh, "because they will only need dope for 200 yards. Another important consideration is that some of the reserve outfits, particularly aviation squadrons, will be firing on short ranges. Many of the ranges at Naval air stations are limited to a 200-, or possibly a 200- and 300-yard line."

The tables below give complete information on the new courses:

U. S. Marine Corps' Course "A" with the M1

Range (yards)	*Time (seconds)*	*Shots*	*Target*	*Position*	*Sling*
200	No limit	10	A	Standing	Hasty
300	No limit	5	A	Sitting	Loop
300	No limit	5	A	Kneeling	Loop
500	No limit	10	B	Prone	Loop
200	50	*10	D	Sitting from standing	Loop
300	60	*10	D	Prone from standing	Loop

U. S. Marine Corps Reserve's Course "B" with the M1

Range (yards)	*Time (seconds)*	*Shots*	*Target*	*Position*	*Sling*
200	No limit	10	A	Prone	Loop
200	No limit	5	A	Sitting	Loop
200	No limit	5	A	Kneeling	Loop
200	No limit	10	A	Standing	Hasty
200	50	*10	D	Prone from standing	Loop
200	50	*10	D	Sitting or kneeling from standing	Loop

* Two rounds initially loaded in the rifle.

Qualification scores for the Reserve course are 190 for marksman, 215 for sharpshooter, and 225 for expert, out of a possible of 250. Last year, reserves in summer training fired for familiarization only.

This summer nearly 100,000 regular and reserve Marines will fire the new courses for record. With men like Colonel Walsh and Captain Barrier heading their training, the coaching is going to be good. Somewhere along those firing lines are the youngsters who are going to be on the Marine rifle teams of the future. ◆ ◆ ◆

NEXT MONTH—*The* RIFLEMAN *will contain NRA Executive Director C. B. Lister's progress report, showing where the NRA gets its money and in what form the money is given back to the shooters . . . loading data on the most popular of handgunners' calibers, the .38 Special and .45 auto, including both target loads for maximum accuracy and souped-up loads for the experimenter and hunter . . . a 'kitchen mechanic's' method for remodeling the 1917 Enfield with a minimum of tools . . . Phil Roettinger, Olympic veteran, on international match-type rapid-fire equipment and techniques.*

LEGISLATIVE Bulletin

A MONTHLY ROUND-UP OF CURRENT LEGISLATION

The March RIFLEMAN carried the first 'legislative box score' to appear on firearms bills presented in 1949 state legislatures. Since then, new bills have come up and action has been taken on some of those previously mentioned. Response has been spontaneous and effective where warning of unwise legislation has reached shooters through NRA Legislative Bulletins. The Association is highly gratified at the prompt and effective action which members have taken to protect the rights of the shooters and sportsmen of the country. Here is the box score as of March 18:

Arkansas: Senate Bill 319, by Senator F. C. Crow of Hope, is an emergency Act prohibiting the possession in Arkansas of any military missile or portion thereof which contains or could possibly contain an explosive charge. The only exception applies to shells of .50 caliber and less. *Action:* Passed House and Senate. House Bill 195, reported last month. *Action:* Sponsors agreed at hearing to withdraw bill for further study. They have not done so and the bill is still on the calendar but probably dead in committee.

California: Assembly Bill 1235, by Assemblyman Rumford of Berkeley, reported last month, would require registration of all pistols and revolvers. NRA Legislative Bulletin of February 7th, outlining the provisions of this bill, has been sent to all members and club officers in the State of California. *Action:* Withdrawn. Assembly Bill 210, by Assemblyman Thomas M. Edwin of 1136 Willow Avenue, Puento, would make it a misdemeanor to possess a loaded rifle or shotgun in a vehicle on a public highway. To Committee on Judiciary. *Action:* None. Assembly Bill 306, by Assemblyman Rumford, reported last month. *Action:* Withdrawn. Assembly Bill 1690, by Mr. R. F. Price of Upland, would make it a misdemeanor for any person to hunt or to discharge a firearm outside the limits of the town or city in areas which are so densely populated as to be urban in character. To Committee on Judiciary. *Action:* None.

Colorado: House Bill 1054, by Representative Radetsky of Denver, reported last month. *Action:* None.

Connecticut: Senate Bill 874, by Senator R. D. Pollotti of Hartford, provides a fine and imprisonment from one to five years for any person having a gun, rifle or other dangerous weapon in his possession without a permit. Referred to Senate Judiciary Committee. An NRA Legislative Bulletin concerning this bill has been mailed to all members and club officers in Connecticut. *Action:* None. Senate Bill 184, by Senator Frank J. Monchun of Windsor, reported last month. *Action:* None.

Delaware: House Bill 249, by Representative Norman C. Calhoun of Ocean View, would prohibit shooting of game birds or animals flushed by farm machinery. *Action:* None. House Bill 285, by Representatives Calhoun and Harvey H. Lawson of Millsboro, would impose 10 percent tax on all sporting goods, firearms (except pistols), shells and cartridges. *Action:* None. House Bill 280, by Representative Noble S. Warren of Dover, would prohibit possession of loaded shotgun or rifle in vehicle or on piece of farm machinery. *Action:* None. All three bills listed above have been referred to the House Committee on Fish, Oysters and Game. An NRA Legislative Bulletin has been sent all members in Delaware.

Idaho: Senate Bill 31, by Fish and Game Committee, reported last month. *Action:* Passed by House and Senate. Awaiting Governor's signature.

Kansas: House Bill 184, by the House Judiciary Committee, would make it unlawful for certain undesirable persons to own, possess or control a pistol. An NRA Legislative Bulletin commending this as an excellent bill deserving of support has been mailed to all members and club officers in Kansas. *Action:* Passed by House February 16th. Now in Senate Judiciary Committee.

Maine: Senate Bill 425, by Senator Arthur E. Ela of North Anson, would amend Section 107 of the present Game Law to provide for seizure by game wardens, without warrant, of all firearms, lights, motor vehicles or equipment found in the possession of any person violating game laws. Referred to the Committee on Inland Fisheries and Game. An NRA Legislative Bulletin concerning this bill has been sent to all members in Maine. *Action:* None.

Maryland: Senate Bill 187, by Senator Barton of Baltimore, reported last month. *Action:* None.

Massachusetts: House Bills 1159 and 1795, reported last month, would control the sale and furnishing of firearms or ammunition to minors. Referred to Military Affairs Committee. *Action:* Referred to next annual session. Senate Bill 48, by Marion N. Odence, would make it unlawful for anyone under the age of 18 to have in his possession or under his control or be permitted by his parent or guardian to own or to control any firearm, airgun or ammunition therefore. Referred to Military Affairs and Public Safety Committee of the Senate. An NRA Legislative Bulletin concerning this bill has been sent to all members and club officers in Massachusetts. *Action:* Referred to next annual session.

Michigan: House Bill 53, reported last month, to increase the fee for a license to sell, purchase, possess or carry firearms. *Action:* Reported favorably by Committee and passed by the House. House Bill 149, by State Representatives Emile A. Pelts of Rogers City, Louise Anderson of Northport, Arnell Engstrom of Traverse City, Martha Griffiths of Detroit and Peter J. Kelly of Detroit. Would amend the present Game Code to provide that it shall be unlawful to use a .22 caliber rim-fire rifle in the taking of deer or to carry or transport same in any area frequented by deer or from the north line of town 16 north during the open seasons for deer. Referred to the Conservation Committee of the House of Representatives. An NRA Legislative Bulletin concerning this bill has been mailed to all members in Michigan. *Action:* None.

Minnesota: House Bills 154 and 930, by W. E. Carlson of St. Paul, F. T. Memmer of St. Paul and A. J. Otto of St. Paul, would prohibit the sale and control the use of air-rifles and air-guns. Referred to the General Legislation Committee of the House. An NRA Legislative Bulletin concerning these two bills has been sent to all members and club officers in Minnesota. *Action:* None.

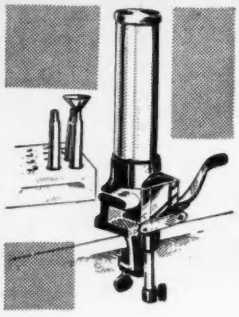
Montana: House Bill 276, by Representative T. H. Duppler of Baker and Lyle Standish of Chateau, would regulate the use of rifles and pistols for the taking of game and would make unlawful the use of certain specific cartridges in connection with the pursuing or taking of big game. Referred to the Committee on Fish and Game. *Action:* Killed in the House.

Nebraska: Legislative Bill 270, by W. Halsey Bohlke of Hastings and Louis Holmes of Grand Island, would amend Section 37-501 of the present Nebraska statute relating to Game and Fish, to make it illegal for any person under the age of 16 years to have or to carry on any public highway any firearms of any kind unless accompanied by parent or guardian. Referred to Agriculture Committee. *Action:* Killed by amendment, March 1.

New Hampshire: House Bill 327, by Representative Edward J. Obert of Center Harbor, would amend the present hunting law to provide for the forfeiture of firearms, equipment and vehicles by persons convicted of illegal night hunting and providing further that the deliberate use of an artificial light to illuminate game by a person having a rifle or shotgun in his possession or in his automobile shall be sufficient evidence of illegal night hunting. *Action:* None. House Bill 330, by Representative William G. Zimmerman of Keene, would provide that a person who has killed a deer may not, during the remainder of the same hunting season, have in his possession, while hunting, a rifle or shotgun of any description either on his person or in any automobile. Both of the above bills have been referred to the Committee on Fisheries and Game. *Action:* Killed, March 9.

New Mexico: House Bill 157, by Mrs. Calla K. Wolfe of La Mesa, would prohibit the sale to minors of any gun, revolver, pistol or other firearm or any air-gun. Referred to the House Education Committee. An NRA Legislative Bulletin concerning this bill has been sent to all members and club officers in New Mexico. *Action:* Killed.

(Continued on page 34)



LOADS FOR THE '06

This article is the first of an important RIFLEMAN *series which will cover in order of popularity most of the better-known American rifle and pistol cartridges. Preparation of the material was handled jointly by the NRA's Al Barr and the H. P. White Company of Cleveland (see* AMERICAN RIFLEMAN, *November 1948, page 21). Five rounds were checked in each case for average velocity figures, and except for lead-alloy bullets, the loads were tested for pressures in commercial barrels (.300 bore, .308 groove, 24 inches long, rifling, one in ten) in a Modern-Bond universal receiver. Velocities are as given on a Potter electronic counter chronograph. Room temperature was controlled between 76 and 80 degrees.*

These loads, in addition to those already published (especially with such older powders as 3031, 4320, 4064 and Hi'el 2) represent the most complete loading information available to date on the '06 cartridge. Subsequent articles on other rifle and pistol calibers will present similar tables of selected loads with the newest powders as well as the older standbys.

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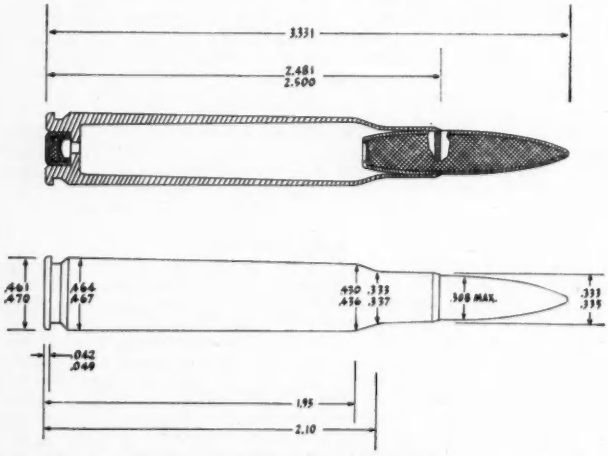
IN RECENT TIMES one great point of attraction for the shooter has been speed, seemingly at any cost. Experiments continually give us means of driving this bullet or that one at higher and higher velocities. Shooters have tried to satisfy their desire for speed by packing all the powder possible behind a light bullet, frequently sacrificing accuracy and barrel life as well as running into dangerous pressures. By a coincidence,



This drawing shows critical dimensions of the .30-'06 cartridge with 172 grain boat-tail bullet. Measurements are averages of ten commercial loads

this mania for speed is probably one of the reasons why the powder manufacturers abruptly discontinued publishing powder-charge tables for handloaders a few years ago.

The .220 Swift, which was the first American ultra-high velocity cartridge to come out reached the market not too long before Du Pont published their final booklet, *Better Loads for Better Shooting* back in 1936. Chances are, troubles with that cartridge had a lot to do with the powder maker's decision to publish no more loading data. Lack of experience with the .220 produced all sorts of problems. Such 'minor' things as a change in primers or an oversize primer flash hole, a tight chamber or increased seating depth, oversize bullets or cases too long for the chambers, a variation in case capacity or any one of a multitude of other problems, had to be considered, especially when working with maximum powder charges. We know now that even a temperature change will noticeably affect load characteristics with these high-speed cartridges. Who knows whether or not chamber temperature is a controlling factor when we find that so many of our high-velocity rifles shoot more accurately with a cold barrel than with a hot one? Too, when used in hot summer weather, midwinter loads may cause excessive pressure. Now, even more than in 1936, high-speed loads have to be assembled with caution.

The loading data which are presented here should be used as a guide. Loads of a maximum nature should never be adopted arbitrarily. No one can safely recommend the absolute maximum load for any one combination of powder, bullet, case and primer. Such loads must be reached progressively.

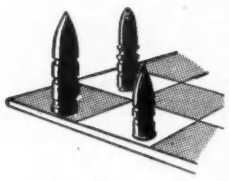
While accumulating these facts, only components readily available were selected for the tests and no attempt was made always to match cases, primers and bullets of any one brand. All possible combinations could not be tried, but these figures may be used in a comparative way when working up loads with bullets not listed. All of these loads should be safe when substituting bullets of different make so long as the diameter is the same or less, the bullet is lighter in weight, is seated farther out in the case or when a milder primer is used.

Now for a bit of .30-'06 history. The Spanish-American War brought to light many shortcomings in the .30-40 Krag rifle with which our regular forces were armed. The Spanish soldier was equipped with a Mauser capable of being loaded from a clip, while with our Krag it was necessary to load cartridges into the magazine singly. This fact, coupled with the desire of our Ordnance Department to increase the muzzle velocity from 2000 to 2300 feet per second, which necessitated a stronger breech action, led to the developmental work which started in 1900 with a view to designing a new service rifle. Several pilot models were made, resulting in the adoption in 1903 of a rifle based on the Mauser system. That would have been the logical time to introduce also a new form of bullet; but economy demanded that the stock of Krag bullets be used, so the .30-'03 cartridge was adopted for use with the 220-grain round-nosed, metal-jacketed bullet.

In February of 1904 the Germans adopted a 154-grain pointed bullet for their 1898 Mausers. France, too, had adopted a pointed bullet. These pointed forms had much flatter trajectories, greater muzzle velocities and greater remaining velocities at all ranges up to 2000 yards.

The improved efficiency was so marked that it became a military necessity for us to overlook the stock of round-nosed Krag bullets and adopt something of comparable grade if we were to maintain our position in the constant race for armed equality. Comprehensive tests were conducted in 1904, '05 and '06 which brought about our adoption of the M1906 bullet. This very closely resembled the German bullet of 1904, being 150 grains in weight, flat based, pointed and having a cupronickel jacket over a lead core. When this new bullet was first tried in the Model 1903 rifle it posed a very interesting chambering problem. Since the ogive of the pointed bullet placed the full diameter 0.2-inch farther back than on the older round-nosed type, the new projectile had a jump of this distance before reaching the rifling. This factor permitted gas leakage around the point during this interval and caused erratic positioning in the bore, with the result that accuracy was poor. Correcting the difficulty by seating the bullet farther out in the case left a seating depth of only a sixteenth of an inch, far too little for field service. This also made the cartridge length exceed the permissible limits for use in the magazine. The solution to this problem was attained by cutting 0.2-inch off the rear end of the barrel and rechambering it, thus in effect moving the rifling lead to the rear so that a bullet with adequate seating depth was properly alined with the bore in close proximity to the rifling. With the increased seating depth the long neck of the 1903 case overhung the bullet ogive, so 0.07-inch of the neck was trimmed, resulting in a revised case 2.49 inches in length and having a capacity of 4.35 cc. The combination gave good accuracy, and all 1903 rifles then in service were recalled and altered to the new specifications, although the designation of 'Model 1903' was retained. The official designation of the new ammunition as noted on contemporary box labels was "Ball Cartridge, Model of 1906, For U. S. Magazine Rifle, Model of 1903".

The ball cartridge, model of 1906, remained the standard of the armed services until 1925, although its shortcomings became more apparent during World War I and after. Our troops in France, equipped with the French Hotchkiss using the 198-grain "Balle D", found the extreme range of these weapons at least 50 percent greater than our own Brownings with the 1906 bullet. The Germans had also adopted a 198-grain boattail bullet for machine gun use which surpassed the efficiency of our equipment. Experimental firings conducted in 1918 and later proved that the range tables then in existence quoted theoretical accuracy and ranges which could not be attained in practice. Tests at Borden Brook Reservoir, near Springfield Armory, and later at Miami and Daytona Beach, Florida, with a great number of different rifles and machine guns using a multitude of bullet designs, definitely proved the superior efficiency at long ranges of a heavier boattailed bullet over the existing 1906 ball. The result was the adoption in 1925, for all arms, of the 172-grain M1 bullet with 9-degree boattail and gilding-metal jacket. This round had an extreme range of 5900 yards, a gain of 2500 yards over its predecessor. As originally issued, the M1 had a muzzle velocity of 2700 feet per second, but this was later reduced to 2640 feet per second due to the difficulty of maintaining acceptable pressures at the higher level. The maximum range in the revised loading dropped to 5500 yards.



Large stocks of the 1906 cartridge were still on hand in 1925, left over from World War I. As an economy measure, these were issued to all branches of the service for practice firing. The stock lasted until about 1936 when 'ball, M1' began to be issued for this purpose. While this day had long been looked forward to by the various branches, its arrival proved a disappointment, since the increased range of the M1 cartridge exceeded the safety limits of most of the target ranges then in use. This resulted in the National Guard Bureau making a request to the War Department for a supply of M1906 cartridges for target practice. The request was approved and ammunition having a bullet very similar to the 1906 type was manufactured. The bullet jackets were made of gilding metal instead of the original cupronickel but were stained with stannic acid which gave them a silvery appearance so that they

HERE ARE AL BARR'S '06 LOADS AS TESTED ON THE H. P. WHITE COMPANY'S BALLISTIC EQUIPMENT:

Load	Bullet: Weight	Type	Bullet Diameter	Seating Depth	Charge Grains	Powder	Lot Number	Primer	Case Make	Velocity 20 Feet	Pressure Lb. Sq. In.	Remarks
1	172	M1	.308	.45	50.0	4895	27277	FA 26	FA	2,795	50,540	.0795 flash hole
2	172	M1	.308	.45	50.0	4895	27277	FA 26	U 42	2,888	52,260	.098 flash hole
3	172	M1	.308	.45	50.0	4895	27277	WRA 120	FA	2,827	57,600	.0795 flash hole
4	172	M1	.308	.45	50.0	4895	27277	WRA 120	U 42	2,843	58,940	.098 flash hole
5	172	M1	.308	.45	50.0	4895	27277	FA 26	Peters	2,784	52,700	.079 flash hole
6	220	I.B.	.307	.68	56.0	4350	10	WRA 120	Peters	2,595	53,560	For heavy game
7	180	Silvertip	.308	.35	57.0	4350	10	WRA 120	Peters	2,761	51,460	For heavy game
8	150	Speer	.308	.21	52.0	4895	27277	WRA 120	Peters	2,943	57,240	Excessive
9	150	Bronze Pt.	.308	.20	51.5	3031	88	WRA 120	Peters	2,980	52,780	Flat shooting
10	110	Speer	.308	.23	49.0	HiVel 2	H 119	WRA 120	Peters	3,078	46,540	Varmint load
11	110	Rem. OP	.308	.16	46.8	HiVel 2	H 119	Rem. 9½	Rem.	2,976	42,640	Custom load
12	93	Luger SP	.3085	.15	57.5	4320	20	WRA 120	Peters	3,268	45,460	Varmint load
13	156	Gas check	.311	.42						1,340		Custom load
14	154	Gas check	.311	.35	19.0	4759	2 C	WRA 115	Peters	1,713		Target load
15	154	Gas check	.311	.35	23.0	4198	8 C	WRA 115	Peters	1,763		Target load
16	120	Zinc alloy	.3095	.40	35.0	4895	27277	WRA 120	Rem.	2,223		Target load
17	120	Zinc alloy	.3095	.40	45.0	4895	27277	WRA 120	Rem.	2,823		Target load
18	100	Kirksite	.312	.39	40.0	4198	8 C	WRA 120	Rem.	3,102		Target load
19	100	Kirksite	.312	.39	58.0	4320	20	WRA 120	Rem.	3,411		Safe load
20	172	M1	Frankford Arsenal Government load							2,657	47,300	Target load
21	180	Soft Pt.	Commercial load							2,593	44,220	
22	150		1941 Fabrica Nacional de Municiones Mexico							2,735	54,320	

THESE ARE AL BARR'S DROP FIGURES FOR '06 LOADS:

Cartridge	Bullet: Weight, Type	Load	Above Aim 100 Yds.	200 Yds.	Below Aim 300 Yds.	Below Aim 400 Yds.
.30–'06	150 Western OPE	Factory	2.30″	On aim	9.50″	26.0″
.30–'06	172 M1	Frankford	2.72″	On aim	10.10″	28.9″
.30–'06	180 Silvertip	Western	2.35″	On aim	8.00″	25.0″
.30–'06	220 Inner Belted	Peters	3.02″	On aim	12.14″	39.0″
.30–'06	220 Inner Belted	56.0 grs. 4350	1.95″	On aim	9.90″	
.30–'06	93 Luger SP	57.5 grs. 4320	2.15″	On aim	12.75″	
.30–'06	93 Luger SP	57.5 grs. 4320	2.05″	On aim	11.23″	40.5″
.30–'06	98 Kirksite	58.0 grs. 4320	1.00″	On aim		27.0″
.30–'06 Imp.	180 Silvertip	Western	2.05″	On aim	11.65″	
.30–'06 Imp.	180 Silvertip	60.5 grs. 4350	1.00″	On aim	7.50″	20.7″
.30–'06 CCC	180 Boat-tail	Western	2.44″	On aim		25.5″
.30–'06 CCC	180 Boat-tail	58.0 grs. 4064	1.42″	On aim		19.25″

might be distinguished from the M1 type. These new rounds were given the old designation of 'Ball, M1906'. While this ammunition was intended only as a special purpose round for use on the target ranges, it started the ball rolling backwards. The long years of peace had softened the complaints of the World War I machine gunner, and the rifleman of the time favored the lighter bullet for its reduced recoil. In 1940 the 150-grain flat-base bullet was again adopted for all arms, under the designation of 'Cartridge, Ball, Caliber .30 M2'.

So much for history. The following notes refer to the loading data given in the table on page 29.

The powder companies have always advised a powder reduction of about five percent when substituting noncorrosive, nonmercuric primers for corrosive Frankford Arsenal 70 or FA 26 primers when using maximum recommended powder charges. The reason, of course, is higher pressure caused by the hotter commercial primers.

To check on this variation, loads 1 through 5 were prepared using these different primers. The results are quite interesting. As will be noted, indications are that a change of primers can boost pressures beyond safe limits. A slight pressure increase will be noted also when using cases having larger-than-normal flash holes. The highest pressure, other things being equal, was obtained with the noncorrosive primer and large flash-hole combination. Many handloaders claim they use the same amount of powder with both Frankford and commercial primers. Pressure in these cases does go higher with the noncorrosive primers, but apparently not always to the point of being dangerous.

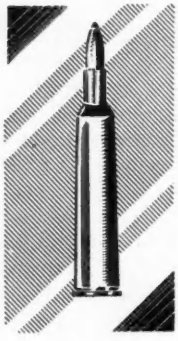
Of particular interest in these tests are the velocity figures. The velocity increase was in proportion for loads 1 and 2, but note that pressure was *under 55,000 pounds*. For loads 3 and 4, where pressure was excessive, velocity was actually lower, or out of proportion to the pressure increase. This pressure-velocity ratio may well indicate that some of the 'super-wildcat' loads give more pressure than anything else, including accuracy. In many instances accuracy seems to be good only up to the 50,000-55,000-pound limit.

Load 6 is one of the finest for heavy bullets in .30-'06 caliber. It is close to maximum, however, so the charge should be reduced several grains when the load is used in tight chambers, or with increased seating depth. This load is very accurate with Remington Core-Lokt or Peters Inner Belted bullets. In some rifles this load performs well with 180-grain bullets.

Load 7 is another which gives excellent accuracy with both the Silvertip and similar game bullets, and the 172-grain M1 boattail bullet. This load with the M1 makes an excellent target cartridge, and a fine flat-shooting long-range combination with soft-point or open-point bullets. With M1 bullets and FA primers we have had fine accuracy with 58 grains of Du Pont 4350 powder.

Load 8 is on the heavy side, having been tested only for comparison with 3031 powder, used in load 9. Here Du Pont 4895, lot 27277, seems hotter than 3031, although there is a difference in the bearing surface or body length of the 150-grain Speer and 150-grain Remington bronze point bullets, even though the seating for both is practically the same. The 150-grain bronze point is quite accurate, even at the rather high velocity. An equivalent load would be 54.0 grains of 4064 or 4320 using noncorrosive primers. Bullets in this weight range are the best for all-around varmint, deer and black bear hunting with the .30-'06.

Loads 10, 11 and 12 are strictly for varmint shooting. The HiVel load, when using 49 grains, is quite accurate in some rifles. Load 11 is the most accurate of any with light bullets tried in several .30-'06 rifles. In a heavy barrel bull gun this load grouped within a minute of angle at 100 yards and nearly as well at 200 yards. Load 10 is a good one, and the same bullet performs with 53 and 54 grains of 4895 using Frankford Arsenal 70 primers. This bullet usually goes to pieces when used in front of heavier loads.



Load 12 has long been a favorite, frequently doing better than most 110-grain bullets when driven at rather high velocity. At best, though, the overstabilized light bullets in a 10-inch twist are not very accurate beyond 200 or 250 yards. Groups open up, and drop is well out of proportion at 300 yards and longer ranges. Also, these light bullets are very wind sensitive.

Loads 13 through 15 are typical short-range target combinations, selected for velocity test because they represent good performance. Interesting is the 1700-1800 foot-second velocity bracket, which seems to be the best level for accuracy when using lead-alloy gas-check bullets. Pressures developed by such loads are very low, so the extra work of obtaining pressure figures was dispensed with in these cases. The velocity tests using 4759 powder verify the belief that loads originally suggested for the obsolete No. 80 powder can be used reliably by substituting weight for weight of this newer replacement.

Load 13 is quite accurate in some rifles. It is a custom combination by Paul G. Mansfield, New Boston, N. H. He gets good results using a booster charge of pistol powder along with a light load of slower-burning powder. One favorite combination is 4.0 grains of Pistol Powder No. 5 and 19.0 grains of 4198 powder. The combination tested for velocity was 20.8 grains. These mixed powder charges are intended to promote powder combustion and are safe at such low pressure levels.

Loads 16 and 17 represent rather high velocity with zinc-alloy cast bullets. The hardness figure of this alloy approaches that of copper-alloy bullet jackets. These bullets, with or without lubricant, cause very little fouling, even when the bullets are driven at quite high velocity. The 45-grain load (No. 17) has given fair to good performance in several rifles. The exact composition of this bullet alloy is unknown, but reportedly it is relatively inexpensive according to W. B. Anderson, 14801 Harrison Road, Detroit 23, Mich., who sent bullets ready for use.

The Kirksite loads (18 and 19) represent practical accuracy at quite high velocity for cast bullets. Load 19 showed good performance up to 300 yards. These hard-alloy bullets apparently have no practical value as hunting bullets and are very wind sensitive for target work. Even in hollow-point form, Kirksite bullets at very high velocity have failed to expand in woodchucks.

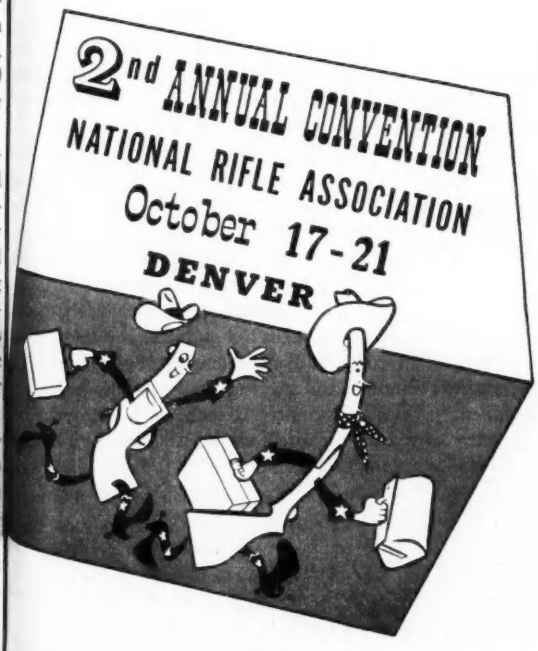
Loads 20 and 21 were fired for check purposes only, but they do show very favorable velocity-to-pressure ratio and both give very good accuracy. Load 22 was tested as a matter of interest, as some of these loads manufactured in Mexico some years ago have caused damaged rifles. The test indicates rather high pressure for the velocity obtained with 150-grain bullets. Pressure was erratic also, varying from 51,500 to 57,100 pounds per square inch.

Even when muzzle velocity is known, drop and trajectory figures are often helpful in determining just where the bullets will land when sighted-in for a given range, usually 200 yards for the .30-'06 cartridge. The factory trajectory figures are good, but actually shooting a load at several ranges with one sight setting will give the most reliable answer for one particular load in a particular rifle. For the actual drop figures it is best to try the same load several times at the various ranges and then take an average figure, as light, wind, temperature and mirage will cause variations in these drop figures. The drop figures given in the accompanying table were obtained with rifles having standard barrel lengths of 24 to 28 inches. Sight line for the target-type scopes used on the rifles average 1.60 to 1.75 inches above the bore axis.

We hope everyone who is interested in this ballistic data realizes that some of these loads have been developed experimentally (but carefully) to a point where they may reach pressures near the allowable maximum. In some rifles they might even be excessive, so we insist that these loads be considered as *suggested*, and not in every instance as *recommended* loads. ♦ ♦ ♦

MANUFACTURERS' SPECIFICATIONS FOR '06 LOADS:

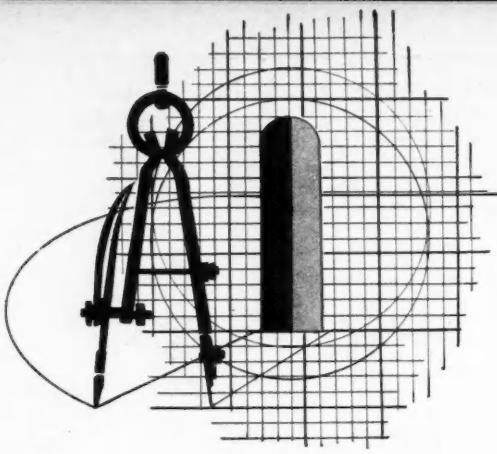
	Remington 110 Hi-Speed	Western 150 Super-X OPE	Peters 180 HV Inner Belted	Winchester 220 Super-Speed SP
		Velocity, Feet per Second		
Muzzle	3,380	2,980	2,710	2,410
100 Yards	2,850	2,650	2,420	2,190
200 Yards	2,370	2,350	2,150	1,970
300 Yards	1,940	2,070	1,900	1,780
		Striking Energy, Foot Pounds		
Muzzle	2,790	2,960	2,940	2,480
100 Yards	1,980	2,340	2,340	2,345
200 Yards	1,370	1,840	1,850	1,900
300 Yards	920	1,430	1,445	1,550
		Midrange Trajectory Height, Inches		
100 Yards	0.4	0.6	0.7	0.8
200 Yards	2.0	2.5	3.0	3.5
300 Yards	6.0	6.5	7.5	9.0
		Sighting In, Iron Sights, Inches		
100 Yards	2.0	2.5 high	3.0 high	3.5 high
200 Yards	On aim	On aim	On aim	On aim
250 Yards	3 low	3.5 low	4.0 low	4.5 low
300 Yards	8.5 low	9.0 low	11.0 low	13.5 low
350 Yards	17 low	18.0 low	21.0 low	22.0 low
400 Yards	25 low	25.0 low	35.0 low	36.5 low



With sixty percent of NRA's members west of the Mississippi, the selection of mile-high Denver as site of the Second Annual Convention points toward an attendance that will almost certainly double that of the first big get-together. Already, some details can be announced. The Shirley-Savoy Hotel, with superb exhibition and meeting room facilities, will be convention headquarters . . . and those who enjoyed last year's exhibits can expect more and better, with nearly four thousand feet of additional space allocated to 'Commercial Row.' Too, you can combine attendance at the Convention with a try at Colorado's famed deer and elk hunting. Seasons have not been announced but, based on past performances, will be close to (if not overlapping) convention dates.

Hotel facilities are good in Denver, whether you plan to stay in a swank hotel (most of them are within a block of the Shirley-Savoy) or in one of the fine motor courts so characteristic of the West. And for the delegate who can bring his family, the unlimited sightseeing of the Denver area will provide a never-to-be-forgotten vacation. Advance accommodations will be made on request, and special reservation forms will be mailed for the asking. Address the NRA, 1600 Rhode Island Avenue, Washington 6, D. C.

Plan *now* to attend, and watch future issues for further details. ♦ ♦ ♦



BULLET DESIGN

By WILLIAM C. DAVIS

GOOD BULLETS NECESSITATE A COMPROMISE BETWEEN DIVERSE BALLISTIC FACTORS

IN MOST RIFLE SHOOTING the first consideration is the requirement of accuracy, which obviously depends, among other things, upon uniformity of bullets. Accuracy is most apt to be adversely affected by lack of uniformity in either of two respects. Suppose that point P of Figure 1 below represents the center of mass of a bullet and line AA the axis of figure. It is evident that, in the bore of a rifle, the entire bullet would be forced to rotate about line AA and point P would describe a helix or a spiral about that line. Since it is the nature of matter in motion to remain in motion in a straight line, upon being freed at the muzzle from constraint of the bore, point P (and the entire bullet) would move off in a direction tangent to the spiral P was describing in the barrel. If the heavy side of the bullet (and point P) emerges from the bore at six o'clock on one shot and at twelve o'clock on the next, the two bullets would not be destined for the same part of the target. Such unbalance is termed 'static' because it can be observed in a stationary bullet by proper instruments. A similar case is the static balancing of automobile wheels on which weights are adjusted so that, when the wheel is free to

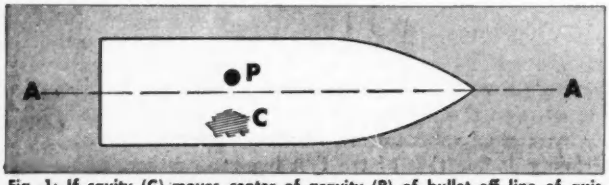


Fig. 1: If cavity (C) moves center of gravity (P) of bullet off line of axis, bullet will deviate from line of trajectory upon leaving the muzzle of gun

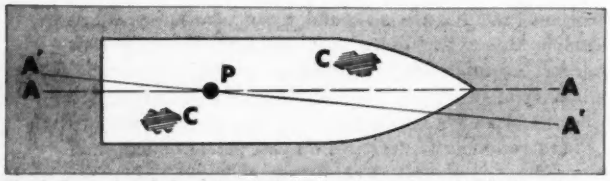


Fig. 2: Dynamic unbalance in a bullet, caused by uneven distribution of mass though center of gravity is located correctly, will make it wobble in flight

rotate, no particular point seeks the position at the bottom. Static unbalance in bullets may be caused by cavities, eccentric points, oblique bases, assymetrical jackets, or any other defects which displace the mass center from the axis of figure.

Figure 2 above illustrates a bullet in which static balance has been preserved but dynamic unbalance has been introduced. The mass center, P, lies precisely upon the axis of figure (and may be properly located fore and aft as compared to a perfect bullet of the same type). However, the mass is so distributed that the bullet tends to rotate about the longitudinal axis of inertia, A'A', rather than the axis of figure, AA. Constrained by the bore, the bullet of course is forced to rotate about AA. But upon release from the muzzle, the bullet tends to rotate about the new axis A'A' and commences to wobble. It is obvious that other forces will prevent the execution of such a wobble but the presence of motion about the longitudinal axis, in varying degrees from one bullet to the next, is not conducive to accuracy. An analogy is the case of dynamic balancing of automobile wheels. When weights are added to the rim of a wheel in static balancing, the desired result can be obtained by adding all of the weights on the outside of the wheel. However, when the wheel is spun at high speed in the process of dynamic balancing, it may wobble or shimmy. Owing to the distribution of mass along paths parallel to the axis, the tendency of the wheel is to rotate about an axis other than that determined by its bearings. The spindle therefore is subjected to a torque which tends continuously to change the direction of its long axis. The remedy is to distribute the balancing weights properly, inside and outside of the rim, so that static and dynamic balance are obtained.

While uniformity of bullets is important, it is a necessary but not a sufficient condition for accuracy in a given weapon. For example, owing to the pitch of rifling, fine barrels rifled for the .22 short cannot be used successfully with the .22 long rifle despite the excellent uniformity of long rifle ammunition in match grades. It is well known among riflemen that the relatively slow twist of many modern varmint rifles does not permit the use of long heavy bullets, however uniform they may be.

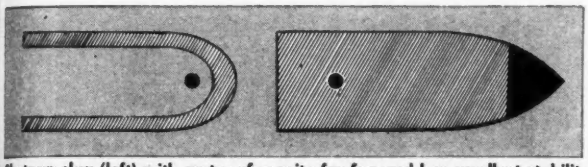
The stability of a bullet depends upon a number of factors. It is generally agreed that stability varies directly as the square of the axial moment of inertia and inversely as the first power of the transverse moment. Since several other factors (muzzle velocity, twist of rifling, absolute atmospheric density, bullet diameter, and overturning moment) complicate the determination, it is often made empirically by firing through 'yaw cards' at predetermined distances and making computations from data thus obtained. [1] While the private experimenter will not likely attempt any such detailed study of stability, certain general principles are apparent.

First, in a given weight, any design which tends to concentrate mass near the long axis of the bullet (long points, boat-

[1] This technique was practiced many years ago by Dr. F. W. Mann whose data are published in *The Bullet's Flight*. The mathematical analysis of such results was not accomplished until more recently, however, and was due largely to efforts of government ballisticians at Aberdeen Proving Ground.

tails), thereby increasing the transverse moment of inertia and decreasing the axial moment, tends to decrease stability. Conversely, designs which tend to increase the axial moment without a corresponding increase in transverse moment (blunt points, hollow points, hollow bases) tend to increase stability.

Second, since both axial and transverse moments of inertia increase directly as the density of material, and since stability is directly proportional to the square of the axial moment, it follows that, other things being equal, stability is directly proportional to density. Thus, a bullet of given design might well be stable when made from lead alloy but unstable when made from lighter metal. This consideration must influence



Shotgun slug (left) with center of gravity far forward has excellent stability of flight, while light-point bullet is relatively unstable and inclined to tumble

the design of bullets which are to be made of light metals such as the currently popular zinc-base alloys. Since these alloys have a density usually about 35 percent less than that of lead, they will be correspondingly less stable. Therefore, only a bullet which is rather 'over-stable' in lead alloy could be used successfully when made of the lighter metal.

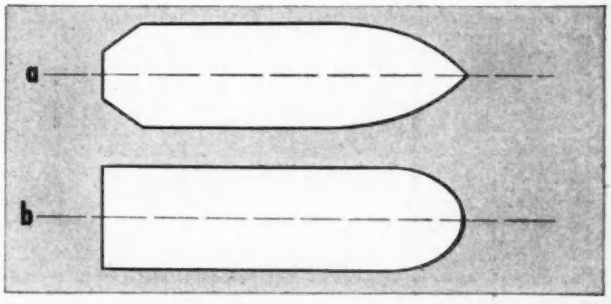
Third, owing to the effect on overturning torque, stability decreases as the mass center is shifted rearward, provided that other factors are not disturbed. Two extremes of this effect are illustrated by the rifled slug in the shotgun and the light-point filler design which was once typical of .303 British service bullets. In the shotgun slug, which has at best a rather uncertain means of rotation, stability is greatly increased by the deep hollow base which keeps the mass center close to the point and near the line of the overturning force. In the British design, a light-point filler, usually aluminum, is inserted in the jacket before insertion of the lead-alloy core. This obviously moves the mass center rearward, or, perhaps more properly, the point forward, thus increasing the distance between the mass center and the line of the overturning force. Since the twist of the .303 rifle is ample for stability, this design is permissible and quite probably does make for greater wounding power of the relatively unstable bullet upon impact with a dense medium like flesh. Correctly or incorrectly, the British have been reported as considering this feature in their design.

It must not be concluded that any direct proportion exists between stability and accuracy. It is probably that overstability is quite detrimental to accuracy, especially where the stability is achieved by the use of extremely short pitch of rifling. This tends to aggravate the effect of static unbalance which exists to some degree even in good bullets. Some of the modern ultra-velocity varmint rifles have only one turn in sixty or seventy calibers and, in addition, their bullets show large initial yaw. While it is probable that they have little margin of stability, the accuracy may be very good. This is due in some measure to the fact that the bullets are comparatively short and give a favorable ratio of axial to transverse moments of inertia.

Being satisfied in the matter of accuracy, the rifleman has still other considerations. Generally his further aims are to launch the bullet with the greatest velocity consistent with the limitations of his weapon and permissible recoil, to have his bullet retain the largest possible percentage of velocity on its trip to the target, and, if his target be an animal, to kill it as quickly and humanely as possible. It is unfortunate that the first and second of these require mutual compromises in design. Since pressures and barrel length are limited by the nature of the weapon, it is apparent that muzzle velocity must vary inversely as the mass of the bullet and directly as its cross-sectional area or the square of its caliber. These considerations would indicate the use of a light bullet of large diameter for best results. However, the ballistic coefficient or 'carrying power' of a bullet happens to vary *directly* as the mass of the bullet and *inversely* as the square of its caliber. Obviously a compromise between the two requirements must be made.[2]

As to the relative merits of light bullets at high velocity and heavy bullets at low velocity, the arguments are practically endless. Two popular fallacies which are encountered continually should be recognized as such. One is the thesis that since big game can be hit at long range with a high-velocity .22, such guns must be long-range, big-game rifles. The high-velocity small-bores were made for varmint shooting, which demands extremely good accuracy and flat trajectory over rather long ranges. For game of 100 pounds or more they should be short-range rifles only, if indeed they are used at all. Even with good ballistic shape, light bullets lose velocity very rapidly. At short ranges the stopping power of ultra-velocity loads is startling, but when the velocity drops to 1200 or 1400 f.p.s., the effect cannot be much different from that of any other light .22 caliber bullet at low velocity. The high rotational velocity has been proposed as accounting for the so-called adequacy of light high-velocity bullets at long range. While it is true that the spin rate is initially high and reduces only slightly in flight, it can be shown that it represents only about two foot-pounds of energy at the muzzle of a typical super-.22. Whatever effect spin might have would be in the matters of expansion and penetration, and this cannot compensate for a large deficiency in velocity and weight.[3]

On the other hand, a typical argument of the heavy-bullet proponent is predicated on the ability of bullets literally to knock down game. This common story quite probably is founded on faulty interpretation of phenomena which have been truly observed. In one much publicized instance, reported by an authority whose integrity is unquestionable, a 400-pound animal was apparently carried sideways a distance of six feet by impact of a bullet. In relating this incident, some writers attribute this to the force of the bullet. It appears that such occurrences are not uncommon, but they cannot rightly be

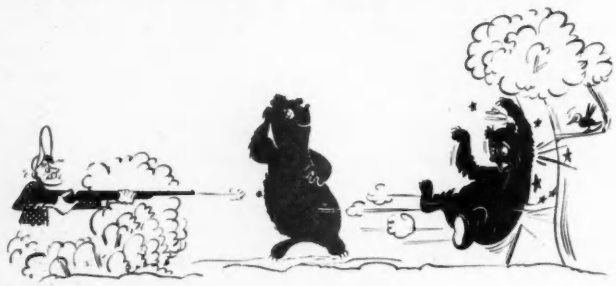


Though two bullets have equal cross-sectional area, one with mass near long axis (a) has less stability than one with mass more evenly distributed (b)

[2] A moderately successful attempt to circumvent this compromise was evident in the Gerlich taper-bore principle described many years ago in THE AMERICAN RIFLEMAN and used extensively by the Germans in World War II.

[3] It is well to observe here that the experimenter should be wary of the typical practice of simulating long-range fire by loading to reduced velocity. In the matter of penetration, it is known that stability is naturally affected by spin. There is also reason to believe that behavior of a bullet which may disintegrate on impact is influenced by its spin. For this reason, it is advisable to approach with caution conclusions regarding penetration and expansion when data are obtained by firing reduced loads which simulate long-range fire in velocity of translation but not, in ordinary barrels, rotational velocity.

attributed to the force applied by the bullet itself. The effect must be physiological rather than physical, for as long as the law of conservation of momentum applies to inelastic impact, the bullet can knock over literally no more than the recoil of the gun. Owing to the facts that the powder charge must be propelled from the gun but does not strike with the bullet and that the bullet must lose some momentum en route to the target, the recoil is actually a bit more effective in this respect than the bullet itself. It is apparent that a bullet can be relied upon only to inflict sufficient damage on an animal that the animal falls. Any gun whose bullet could literally knock over a 400-pound animal could reasonably be expected to kick over two 200-pound men at the same time. [4]



[4] A notable exception to this principle is the case of weapons fitted with compensator, muzzle brake, or similar device which utilized energy from the propellant to counteract recoil. The ultimate in this is the recoilless weapon, of which several types were developed in World War II.

Perhaps the only conclusion which can be drawn from the foregoing considerations is that the selection of game bullets should be based upon sound principles and a knowledge of the circumstances under which the load is to be used. On large game, it is generally good practice to assure sufficient penetration for exit of the bullet when possible since a blood trail aids greatly in recovering wounded game. Usually such penetration is sufficient to assure quick kills on those end-on shots where bullet exit may not occur. To assure this penetration with adequate expansion at all ranges, bullets of expanding, non-disintegrating type probably are required in most weapons. However, in some areas, and especially in varmint shooting, positive disintegration of the bullet upon impact is imperative to prevent ricochets. It must be kept in mind that bullet disintegration is greatly affected by striking velocity and a load which has been found free from ricochets at one hundred yards may ricochet badly at three or four hundred.

It should be obvious that bullet design, however good, can supplement but not supplant for the rifleman the quality of common sense. There is not now and probably never will be a single best bullet. Where circumstances necessitate the use of a bullet ill-suited to the game at hand, the rifleman must govern his shots accordingly, considering first the safety of his neighbors and himself, and second the fact that no man has the right deliberately to wound his quarry without reasonable chance of a quick, clean kill. ● ● ●

Legislative Bulletin

Continued from page 27

New York: Senate Bill 880, by Senator Panken, reported last month, requires purchaser of ammunition to hold license for firearms concerned. Referred to Committee on Codes. NRA Legislative Bulletin mailed to all members and club officers in New York. *Action:* None. Assembly Bill 1076, by Assemblyman Joseph R. Younglove of Johnstown, would provide that no person while hunting with the aid of a dog or when afield accompanied by a dog, shall possess any rifle larger than .22 caliber. Referred to the Conservation Committee. An NRA Legislative Bulletin has been mailed to all members in New York. *Action:* None. Assembly Bill 1916, by Assemblyman William F. Bowe of Flushing, would prohibit the use of any rifle for the taking of deer in the counties of Columbia, Delaware, Greene, Rennselaer, Sullivan, Ulster and in that portion of the county of Otsego south of the main line tracks of the Delaware and Hudson Railroad. Referred to the Committee on Conservation. An NRA Legislative Bulletin concerning this bill has been sent to all members and club officers in New York. *Action:* None. Assembly Bill 696, by Assemblyman Robert Walmsley, reported last month. *Action:* None. Senate Bill 880, by Senator Panken of New York City, reported last month. *Action:* None.

North Dakota: House Bill 52, by State Highway and Public Service Commissions, reported last month. *Action:* Passed House January 31st. Indefinitely postponed in Senate February 22nd.

Ohio: House Bill 11, by Representative George B. Marshall of Columbus, reported last month. *Action:* Reported favorably and passed by the House on February 21st. House Bill 246, by Representative John J. Farley of Cincinnati, would amend the present general code to give Ohio a "Sullivan Law" making it illegal to purchase or to possess a pistol or revolver without police permission. Would make possesion without license presumptive evidence of intent to use illegally. Referred to the Judiciary Committee. An NRA Legislative Bulletin concerning this "Sullivan" type of bill has been sent to all members and club officers in Ohio. *Action:* Killed in Committee at request of Representative Farley.

Oklahoma: House Bill 244, by Dr. Richard T. Oliver of Tulsa, would amend the existing game law to make it unlawful for any person to have in his possession at any time, either day or night, in an area known to be frequented by deer, any rifle larger than .22 caliber. Referred to the Game and Fish Committee of the House. An NRA Legislative Bulletin concerning the bill has been mailed to all members and club officers in Oklahoma. *Action:* To be amended.

Pennsylvania: House Bill 385, by Representative George J. Sorrof of Pittsburgh and Representative Walter T. Kamyk of Pittsburgh, would prohibit the sale of any air-rifle, BB gun or similar toy which has become a "dangerous instrumentality". Referred to the Judiciary Committee. An NRA Legislative Bulletin concerning this bill has been mailed to all members and club officers in Pennsylvania. *Action:* None. Senate Bill 208, by Senator John J. Haluska, would make it unlawful for any person to carry or have in his possession a firearm with the safety catch off or fully cocked except when at complete stop in preparation for firing at game actually in view or within hearing distance. Referred to the Senate Committee on Forests and Waters. An NRA Legislative Bulletin concerning this bill has been mailed to all members and club officers in Pennsylvania. *Action:* None.

South Dakota: House Bill 109, by the Game Fish and Parks Committee, would make it illegal to hunt big game with any rifle using a cartridge less than 2 inches in length or having a bullet less than 22/100 of an inch in diameter. Only a soft point or expanding bullet would be legal. Referred to the Game, Fish and Parks Committee of the House. An NRA Legislative Bulletin concerning this bill has been sent to all members and club officers in South Dakota. *Action:* Passed both houses and sent to Governor.

Texas: House Bill 409, by Representative H. A. (Salty) Hull of Fort Worth, would prohibit the possession of firearms by criminals or subversive elements. Referred to the House Committee on Criminal Jurisprudence. An NRA Legislative Bulletin concerning the bill has been mailed to all members and club officers in Texas. *Action:* None

Utah: Senate Bill 65, reported last month. *Action:* Passed the Senate Killed in the House on February 16th.

Wisconsin: Assembly Bill 184, by Assemblyman Clarence W. Gilley of Rhinelander, would amend the present statute relating to the reckless discharge of firearms to provide that no person shall handle a gun as to "endanger or be likely to endanger" the property, life or limb of any person. Referred to the Judiciary Committee of the Assembly. An NRA Legislative Bulletin concerning the bill has been sent to all members and club officers in Wisconsin. *Action:* Hearing held by the Judiciary Committee of the Assembly and reported favorably February 25th.

In future issues, the RIFLEMAN will continue to present this listing of developments in the various state legislatures, forty-five of which are in session this year. In addition the Association will continue to rush information to members by letter in any states threatened by unwise or improperly-drawn firearms legislation.

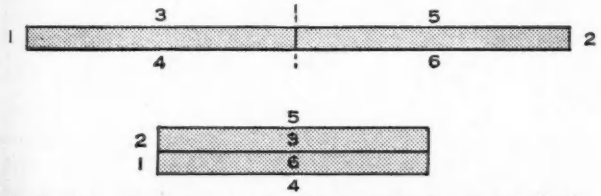
LAMINATED STOCKS ARE NOT NEW, BUT THEIR APPLICATION TO THE SHOOTING PROBLEMS OF TODAY HAS BEEN NEGLECTED

WARP-PROOF STOCKS

By M. W. LERNER

PERHAPS NOT THE most important characteristic of a rifle stock, yet certainly the most universally desired, is beauty of wood. No matter who the rifleman—whether the man who buys a gun merely to hunt a few weeks of the year, or the crank who must take a hand in fashioning his shooting iron and to whom a gun is a possession to be fondled and exhibited to friends—the rifle stock must have a certain esthetic value and preferably should arouse such exclamations as, "What a beautiful piece of wood! Where in heck did you get that?" Witness the fancy woods always in demand—myrtle, Circassian walnut, curly and bird's-eye maple, and sometimes even rarer types.

But rifle wood must not be merely good to look at. It must have certain other characteristics, the most important of which for those who insist upon accuracy, is the ability to withstand a highly-variable environment without warping. Warping, the bugaboo that has a direct effect upon barrel bedding and



The blank for a laminated stock is made by cutting lengths in half, after numbering ends and flats, and then building up so that one half of strip is inverted and opposite in direction to the other half

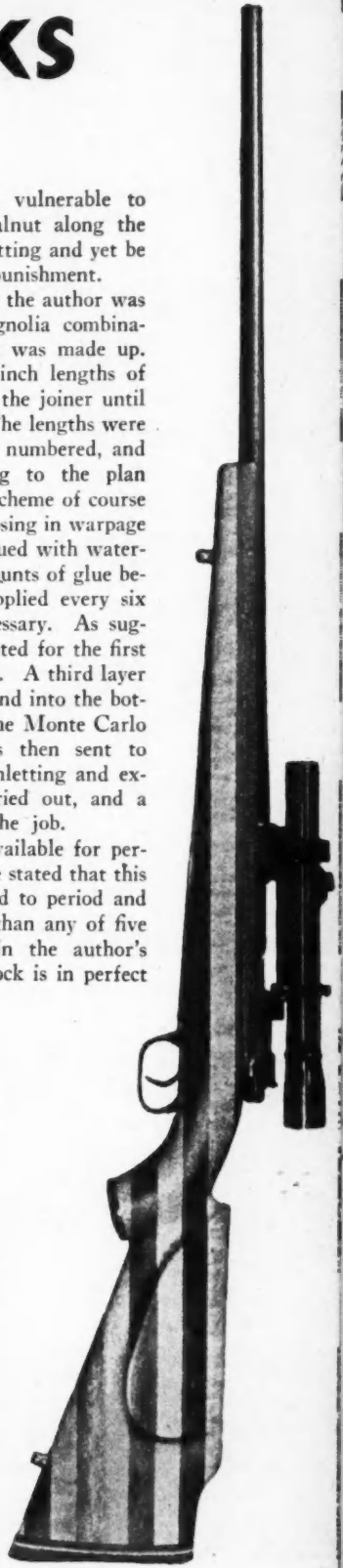
therefore affects accuracy, is the chief curse of rifle wood. Probably the Germans were thinking of warpage as well as economy when they issued stocks of laminated plywood on Mausers of World War II vintage. Given a stock that is properly bedded and is entirely non-warping, you will have a rifle that will hold its zero rain or shine, arctic or tropical climate (assuming of course that the surface of the wood is properly finished to seal the pores and the wood itself possesses the required strength to withstand the recoil). The other qualities rifle wood must have are correct graining and proper weight and hardness, the latter to take care of the abuse given on the field and range.

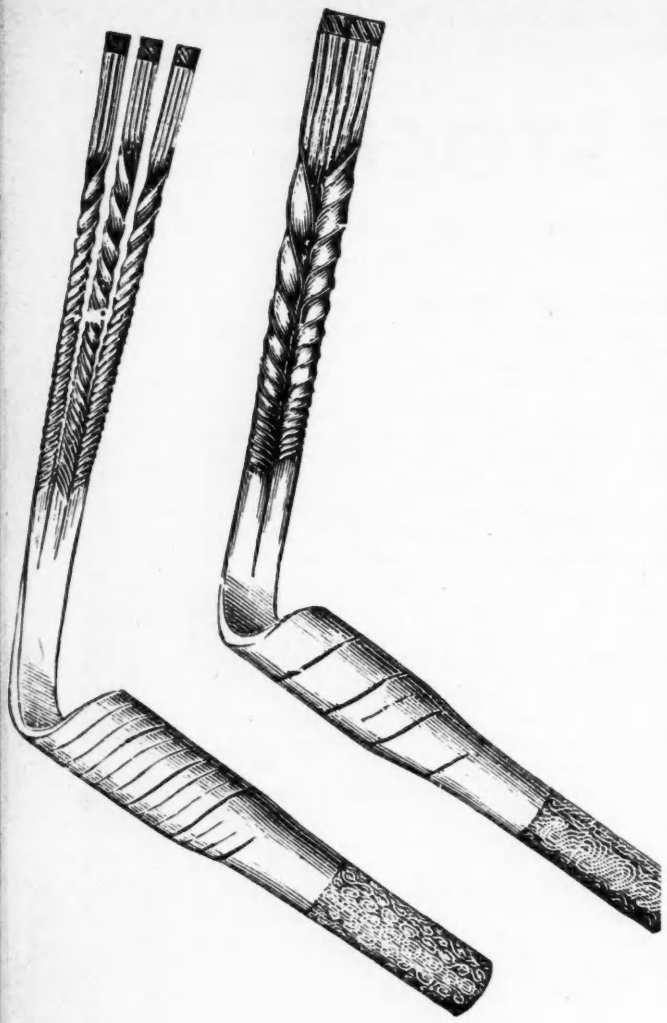
All of these characteristics can be obtained by the use of laminated rifle stocks! And you can get the pleasing appearance (which was certainly not true of the German military stocks) by the correct design and selection of woods. Certain woods such as walnut and maple blend together to give a handsome combination, mutual enhancement so to speak. If a more contrasting result is desired, magnolia can be used with walnut or mahogany. Combinations of these woods will yield stock weights essentially the same as with walnut alone. The functional aspects of these laminations is well-known. The theory is that the tendency of one layer to change shape is resisted by a different tendency in another layer, the combined layers thus opposing over-all change, and warp being held to a minimum. Ruggedness in the stock is secured by putting the harder wood along the top of the forearm and comb, these being the areas vulnerable to knocks; however, a dense walnut along the forearm top will facilitate inletting and yet be hard enough to absorb some punishment.

The first stock attempted by the author was a walnut-bird's-eye maple-magnolia combination. Here is how the blank was made up. Five foot by 2½-inch by ¾-inch lengths of wood were carefully run over the joiner until the flats were satin smooth. The lengths were cut in half, each flat and end numbered, and the blank built up according to the plan shown. The purpose of this scheme of course is to make adjacent layers opposing in warpage tendencies. The layers were glued with waterproof Cascamite, generous amounts of glue being used, and clamps were applied every six inches. No dowels were necessary. As suggested above, walnut was selected for the first layer and maple for the second. A third layer of walnut will be found to blend into the bottom of the forearm and into the Monte Carlo beautifully. The blank was then sent to Bishop for rough shaping. Inletting and excess wood removal were carried out, and a linseed oil finish completed the job.

No quantitative data are available for performance. However, it can be stated that this rifle holds its zero from period to period and from first to last shot better than any of five conventionally-stocked rifles in the author's possession. The laminated stock is in perfect shape after four years of fairly hard use, and not even a hairline crack has appeared between the layers. A quarter-inch butt end piece removed when the stock was originally made to shorten the pull still cannot be broken across the glue joints when moderate pressure is applied.

A word about the forearm. The absence of the usual contrasting tip commonly seen on custom stocks reflects the influence of our rather famous New Jersey gunsmith, Herman Treptow of Milltown. As he pointed out, why put a potential source of warp annoyance on a nearly warp-free stock? This pertinent advice was followed and not regretted! ●●●





Damascus Barrel Bogey

DO MODERN HIGH-INTENSITY LOADS RELEGATE DAMASCUS BARREL GUNS TO THE CLOSET?

By Pierre Pulling

EACH MONTH almost every gun editor in North America takes a crack at the risks incurred in using modern loads in Damascus and laminated shotgun barrels. More power to them; they tell the truth and nothing but the truth. I agree with them that the only absolutely safe gun is the proverbial weapon without lock, stock, or barrel, and the only utterly innocuous place for it is on the wall. For well-meant reasons, however, they have not told all of the truth about Damascus-barreled shotguns. Under certain conditions, it is as safe to shoot certain kinds of smokeless powder in good Damascus barrels as it is to shoot anything.

My family began to experiment cautiously with bulk smokeless shotgun powder at the turn of the century. I was loading shells myself by 1903. Factory-loaded shells were available and good as long ago as I can remember, but a number of old-timers even stuck to muzzle-loaders, and handloading was both cheap and stylish. My father and a couple of uncles compared batches of black and 'nitro' powder loads. They were looking for a smokeless propellant that shot as well as two old black

MANUFACTURE OF DAMASCUS BARRELS

The Damascus and laminated steel barrels which became popular in the last half of the eighteenth century were made in a unique manner. The entire process for two- and three-iron Damascus barrels is pictured above. The stages in manufacture are illustrated on the opposite page and described in W. W. Greener's The Breechloader and How to Use It *(London, 1892) as follows:*

The iron for the manufacture of gun barrels was formerly made from scrap and old horseshoe nail stubs. The modern way of preparing the metal for gun barrels is to make the whole from new metal, as follows: Bars of prepared steel and superior gun iron are placed together in fagots alternately, then heated to welding heat in a furnace, and placed under a tilt hammer, and welded into one bar (Fig. 1), which is passed through rolls and cut into pieces; then go through the same processes of hammering and welding again. The best metals made by this process are laminated steel and fine Damascus, the former containing a larger proportion of steel.

The Damascus and laminated barrels differ only in the way that the iron and steel are put together in the first process.

For the cheaper or single-iron Damascus, a square rod is taken about four feet long and five-eighths inch thick, and placed in a forge fire until about eighteen inches of the rod is brought to a red heat, when one end is thrust into a square hole in a block made fast to a frame, and the other end fixed into a movable head at the other end of the frame. A rotating motion is then given to the movable head by means of a winch handle and cogwheels. The rod, being square, cannot turn round with the head, so is twisted on itself (Fig. 2).

The cheaper quality laminated steel, which is also known in the trade as single-iron Damascus, is made by drawing out this one rod into a riband, which is afterwards coiled on a mandril and welded together (Fig. 3 shows three-iron Damascus after twisting on mandril ready to be welded). The illustration (Fig. 4) shows the figure of the barrel when finished. The next quality is two-iron Damascus or laminated steel, made from two twisted rods, each three-eighths square, and welded together and rolled into a riband, with the twisted spirals in opposite directions, as shown (Fig. 5).

Three rods are used, and welded in the same way for the best barrels (Fig. 6). This is the favorite number for English barrels. Sometimes, but rarely, four rods are used. Three rods made a very much finer figure than either one or two rods.

In Belgian barrels as many as six rods are sometimes used (Fig. 7), but the overtwisting rends apart the fibers of the iron and the rods are weakened thereby. ◆ ◆ ◆

brands: Du Pont's Duck Shooting and Laflin and Rands' Orange Extra. In Du Pont's Bulk Smokeless, they apparently found it. It was made to produce the same breech pressures as a similar *bulk* of black powder. The cases, almost invariably UMC Monarch primed shells, were a little heavier and slightly more expensive than black powder shells. The brass was moderately high, the heads thicker, and the primers longer than in the standard black powder shells. We reloaded the same shells a couple of times and sometimes reloaded factory-charged shells.

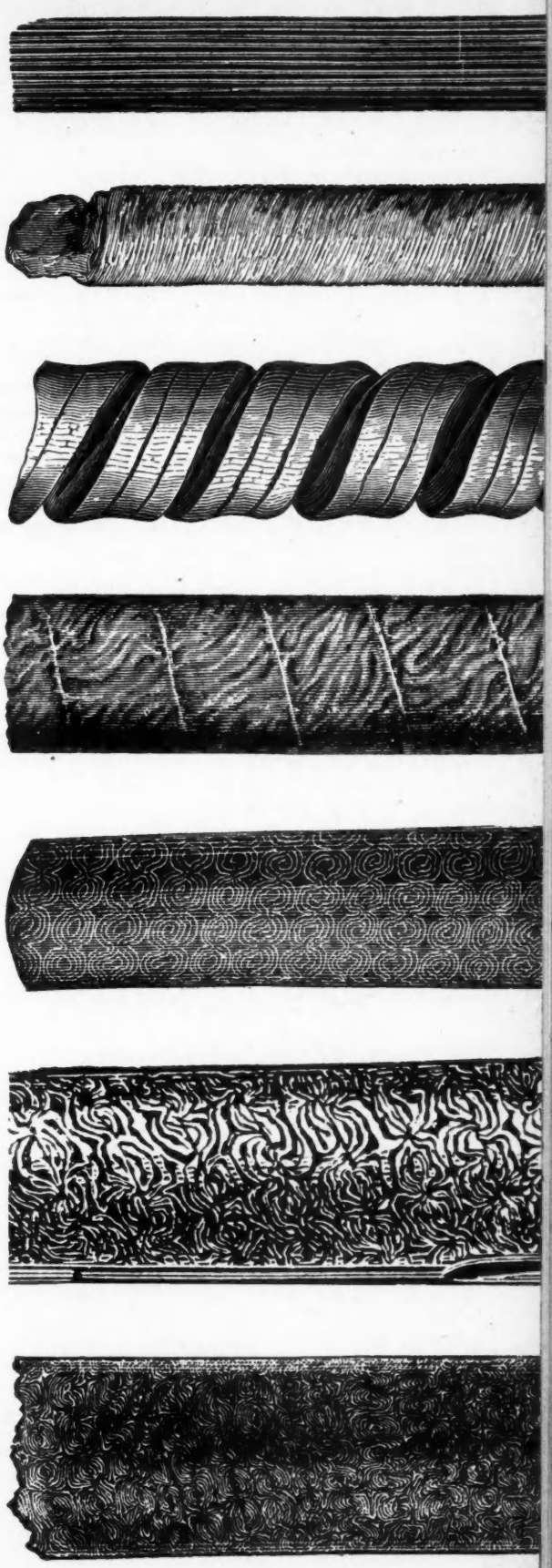
It was not until 1915 that I was able to get clear away from that old set of reloading tools. We loaded thousands of shells, largely with Du Pont Bulk Smokeless powder, and fired most of them in laminated or Damascus barrels. This was from choice as well as necessity. The first shotgun I owned was a single. It was donated about 1904, and I felt slightly let down because it had a good steel barrel. The expensive doubles usually offered Krupp fluid steel and finely figured Damascus at the same price. We would pay extra for a sort of decalcomania Damascus finish that was put on steel barrels. The hunters I knew, old and young, preferred the old-style barrels, probably because of hidebound tradition.

This history nails down a significant fact: For a decade or more after smokeless powder became popular, many thousands of shotguns were made with laminated and Damascus barrels. They were intended for use with bulk smokeless powders, and there was no question about using the relatively mild dense propellants in them. When I could afford it, I bought Nitro Club shells loaded with ballastite powder and shot them in the borrowed doubles that I always used when they were available. I read the outdoors magazines carefully, and if there were warnings about Damascus barrels I was unimpressed.

This is not even remotely a refutation of any advice to beware of modern charges in old shotguns. It is leading to the fact that you can load shells now with the same type of powder I used in 1905, and shoot them safely in the same kind of guns. I declined to make any such statement until I had written to the two best technical experts on ammunition that I believe are living in this country. Both serve on editorial staffs and write extensively. Both are well known to all readers of shooting literature. Both agreed that Du Pont's Bulk Smokeless shotgun powder is about the same as it has always been, right down to the green canister and the sneaking pointers. Both said that the powder was safe in well-kept guns that were initially good. Both were very cagey with their phraseology. Though they were trustful enough that I would not quote them by name, they are in deadly fear that fools will think *any* kind of smokeless powder is safe in old guns, and that surviving relatives will sue their publications.

Time was when it saved money to handload and reload shotgun shells. Lead is now very scarce and expensive, and for years both loading tools and all components were almost off the market. Unlike fine target rifles, shotguns are rarely if ever so temperamental that you must manufacture their fodder by hand to get maximum results. But times are changing, we hope, as to getting shotgun reloading materials, and I see no reason why bulk smokeless handloading should not be a most fascinating hobby.

Handloading is the answer if you have a fine old Damascus barrel double and want to use it. Of course you can get excellent results with black and semi-smokeless powders, just as muzzleloading enthusiasts do. The difficulties from black powder, however, are the same as they always were. Smokeless powder was invented to get away from smoke. My early experience indicates that the killing powers of good black and bulk smokeless powders are about *(Continued on next page)*



the same. Neither will give the remarkable results of fine modern loads, but they are good. Loads of black and bulk smokeless powder will smash every clay target you cover at skeet or traps. They will drop any game bird within reasonable range. With them you cannot collapse waterfowl at extreme ranges the way modern smokeless loads in my Smith Magnum 12 will do. But I have another Smith, a 10 built about 1888, and it will kill just as many ducks with bulk smokeless loads as the Magnum 12 will, and its weight is such that you may ignore recoil. My other fine 10, an 1877 Parker, shoots beautiful patterns but is not so heavily choked. It has two sets of barrels, and is light for a 10. It is destined for some extensive experimenting at both skeet and traps.

So get some loading equipment and shoot those fine old guns if you want to. In loading, use your brains and not over 3¼ drams of powder in the ever-present 12. You will be amazed at the results with 3 drams of powder and an ounce to an ounce and one-eighth of shot. Some old foreign guns may be chambered for 2-inch shells. If so, slice off the shells and load a 12 with 16-gauge charges. Nothing has been learned about boring and choking shotguns in sixty years or more, but there have been unpredictable improvements in steels. For light breech pressures, the old barrels were strong enough, and they were prooftested to stand a lot more pressure than they were ever intended to take. That is the reason some of them do stand modern shells for a time, but eventually most of them will blow up.

Gun editors must be carefully indoctrinated before you ask them any more questions about twist barrels! They are hopelessly harried, and more likely to blow up than those old guns. They are caught in the ballistical 'new look', and that is that. In order to sell a modern shotgun, it must be so light that it kicks like hell with the ultra-heavy loads the shooter insists on firing. It must have a single-barrel sighting plane, and either be choked to death or have an adjustable choke that is usually out of adjustment when a bird rises. It must, of course, be loaded with the wrong charge. A 3-inch .410 carries a 20-gauge load. A 20 must be loaded up to a normal 16, and so on to the Magnum 10 that fires 8-gauge charges. The guns must be so strong that they will stand such overloading and not bust. Finally, modern guns must shoot three to six shots with great rapidity, at times when one or two shots would be more sporting and just as effective. Lastly, the stock must be so straight it fits a fat and forward-pitching trapshooter and none other. By such standards those old Damascus barreled guns are just out of the running. They may come back as muzzle-loaders—even arrows have come back. Anyway, I have shot kegs of bulk smokeless powder in them, and plan to shoot kegs more unless I pass on prematurely from swivel chair paralysis.

♦ ♦ ♦

A few years back, guns with Damascus, twist, or laminated barrels were highly prized, and the most expensive guns were made with such barrels. With the advent of high-intensity dense smokeless powder loads, stronger barrels were found necessary for safety, and the loading companies refused to guarantee their product when used in Damascus or similar barrels.

So many accidents are reported to gun editors that they can hardly be blamed for refusing to state definitely that a Damascus gun would be safe, even with an apparently suitable load. The trouble is that with hundreds of thousands of such guns being used under all kinds of conditions, by all kinds of people, the time will surely come when an accident will happen from some unknown cause, as many already have, and then the gun editor would surely be blamed.

If you still want to take a chance and shoot Damascus barrel guns you can find black powder shot shell loads in the Belding & Mull Handbook (Belding & Mull, Philipsburg, Pa., 60¢). —ED.

The THUER CONVERSION

Continued from page 24

these specimens, which with the inside of their corresponding cylinders are specially numbered 75 and 5, are identical and interchangeable. They are stamped with the same inspector's mark, a small F. Other examples of small Thuers are known to the author with special serials 17 and 33 for the 1849 and 32 for the 1862.

The larger Thuer specimens in the author's collection—1851 Navy (two examples), 1860 Army and 1861 Navy—differ from the smaller models in that the thumb piece for turning the ring is at the top rather than on the left side of the cylinder, and is slotted so that the hammer may rest in it between the firing and ejecting positions. In the larger ring there is a stud which locks it in either position, whereas in the smaller it is held in the firing position by a spring. The larger specimens of ring are likewise identical and interchangeable, with much the same markings as the smaller type. Serial numbers on the outside of the altered cylinders correspond with those on other parts, while each ring and inside cylinder is separately numbered (respectively 174, 25, 12 and 7). There is an F on both 1851 Navys, the other models bearing British proofmarks but no inspector's stamp. Other examples of the 1860 Army and 1861 Navy are known to the author with special serials 10 and 42 in the first case and 13 in the latter.

It should be noted that all Thuers described up to this point are marked "PAT. SEP. 15, 1868" on the left side of the ring and have the script letter *E* over the ejecting lever. All but the 1862 model have had the end of the rammer drilled and threaded to take a reloading plug, and the 1849 and 1851 specimens have had their barrel frames cut out so that cartridges being loaded or ejected will clear. With the streamlined frames of the other models, this was not necessary. The patent specifications state that the chambers of the cylinder "may be tapering"—this is the case only in the above-mentioned 1860 Army and the 1862. Probably because of such reaming no fluted-cylinder alterations of these types are known. The author has heard of, but never seen, a Thuer conversion of the so-called 1853 Belt Model, and has examined several Dragoon Thuers of doubtful authenticity.

♦ ♦ ♦

IN ALASKA THERE IS NO SURER WAY TO EVOKE CONVERSATION THAN TO SUGGEST THAT SOMEONE IS NOT USING A GUN OF LARGE ENOUGH CALIBER

A CHEECHAKO'S OBSERVATIONS

Photographs by the Author

By WILLIAM WAKELAND

HUNTERS AND TRAPPERS here on the tip of the Alaskan Kenai Peninsula (where the world's largest moose have been taken) use guns primarily to get meat and to give them protection in the rare cases it is needed. During hunting especially they want a minimum of expense, weight and confusion from a gun. The men here are reluctant to spoil meat, yet they stake their lives on their weapons, because one may meet a bull moose or brown bear at any time on the Kenai.

Paralleling many of the accounts of present-day big-game hunts in Alaska are the stories of the English hunters who used to frequent Alaska prior to the first World War. One such hunter came equipped with everything short of television, even having beaters and boys to attend to his toilet. For a weapon, his porters toted a cannon so huge a tripod was necessary for shooting—for use on Sitka deer! My informer feels the gentleman received his just deserts, because he never, to the guide's knowledge, bagged a deer, simply because the little animals would not wait for his artillery to be set up.

Must hunters aspire to shoot game from the front porch, as Grandpa used to do? We often rationalize a long shot, saying many types of game—mountain sheep, for example—cannot be killed at less than long range (anything from 400 yards to infinity). Strange, then, that one hunter should tell me he sometimes backed off from sheep so his .300 Savage would not tear up meat so badly. Later he found a .218 Bee to be sufficient, *if the shot was carefully placed.*

The placed shot is illustrated by stories of men bagging their moose with a .22 pistol shot behind the ear (the .22 rimfire has since been outlawed for use on big game). Even body shots from a .22 bring down moose. Mr. Henry Chamberlain, of Homer, gave what I believe to be the least-stretched account of killing a moose with the .22. He emptied the magazine of nine shots into the animal at comparatively close range, aiming for the heart from a broadside position. The moose walked a short distance, shuddered, and collapsed. Upon examination, one of the bullets was found to have penetrated to the heart and lodged there.

Mr. Chamberlain does not believe in hunting moose with a .22 rimfire. On the other hand, he does not believe a .375 Magnum will kill a moose in time for the hunter to find it if the shot is not placed somewhere in or near a vital area. Mr. Chamberlain's beliefs typify those of the average hunter on the Peninsula.

Henry Chamberlain has been in Alaska a long time. He has shot a great deal of game, he knows only the average about ballistics, and he has used a wide variety of rifles. He started with the 'old reliables', .30-40 and .30-'06, and, as he became more proficient, gradually worked towards lighter calibers. Among the rifles he liked was the .25-35. When the .250 Savage appeared on the market, he bought one and still prefers it to other guns. With it he has killed moose, sheep, walrus, caribou, polar bear and other lesser game, although he never has had occasion to shoot a brownie with it.

"But Mr. Chamberlain," I objected, "haven't you heard that the .250-3000 is on the doubtful list even for deer?" Chamberlain then disclosed the fact that Stefansson had used a 6 mm. while in the North, and also he recalled seeing many .24-caliber rifles in the interior. One hunter, employed to furnish a camp with meat, mostly caribou, used the 6 mm.

"Recoil," Chamberlain continued, "bothers everyone, only

Dick Lont, though pictured with a .30-30, killed this brownie from 275 yards with two 180-grain .30-'06 bullets in the shoulder and one in the neck

most of us won't admit it." Perhaps it bothered him more than most, as he gave up what we consider medium calibers in preference to the .250. "Because," as he put it, *"it's not the big bullet that counts, but where you put it, big or small."* And he reasoned that a shooter who consciously or unconsciously flinches cannot place his shot well.

At this point, Tuggle, a trapper from across the bay, interposed with a story we could all bear in mind. A friend of his, a .30-'06 fan, boasted that recoil bothered him not at all. Tug asked him to shoot at a mark while he observed his reaction, removing, surreptitiously, the cartridge from the chamber while he spoke. At the click of the hammer, the friend nearly fell on his face, then red-facedly admitted his error.

The .22 Hi-Power was formerly used with success in the Kenai area on moose, but poor accuracy and short barrel life made it short-lived. Locally, the hair seal is killed with the .22 Hornet; accuracy, economy, low recoil and trajectory superior to the long rifle, make it ideal for head shots to prevent the animals from rolling off the ice into the water. Several men have suggested I try killing my moose next fall with my own Hornet, reasoning it would not only do the job, even with a heart or lung shot, but would not spoil much meat.

Meat spoilage is a big issue here, as it should be everywhere. Last fall, when I dug out a perfectly mushroomed 180-grain Core-Lokt .30-40 slug from beneath the skin of a large black bear, and saw how both shoulders had been mutilated, I rejoiced at the excellent performance. However, as I occasionally like berry-fed bear meat, I hated to see a third of each shoulder ruined. How many times have we seen venison and other more valuable meat spoiled with a body shot? A spine, neck, head or heart shot with a lighter caliber would have sufficed and it would not have spoiled nearly so much meat.

Toting 125 pounds of berry-fed black bear, Jules Kilcher holds his Krag in readiness for any animal that might be interested in getting the meat

You may ask, "What about a bear that's coming after you? Isn't a heavy bullet needed?" From all I can learn, yes. As one man put it, "Any animal, when wounded and his 'dander up', may come at you, and a hell of a wallop is necessary to put it down pronto." We must either make one of the first shots good or pack a cannon if we choose to eliminate all possible hazard from hunting. On the other hand, many old-timers feel chances are better with a gun they know they can handle than with one of larger bore that will affect their ability to place a shot.

Locally, the term 'long range' seems to mean about 300 yards. Beyond that distance hunters are not concerned with what their particular guns will do. Why should they be? They are not varmint hunters, nor are they so equipped; moreover, they realize that many of their rifles simply will not group well, and that shots beyond a couple hundred yards are purely hit-or-miss propositions regardless of the shooter's prowess. These hunters exercise a little wisdom and foot power to get close enough to their quarry to discern whether or not they want to shoot it, and where. On hearing me mention some of the long-range shots I have heard or read of, these men have laughed. One admitted he had once taken an 800-yard shot at a sheep and killed it, but later admitted he had done a lot of powder burning between the first and final shots. He agreed that he could have crippled half a dozen sheep during the fusilade, as he not only could not see what was going on, but he and his gun probably could not shoot into a washtub at that range under ideal conditions.

To return to rifles, the author's happens to be a .30-'06 on a Mauser action. Not the least of reasons for my choice is the availability of components for reloading. The moderately heavy barrel and the small drop at the heel of the stock make it a pleasant rifle to shoot. Its predecessor, a very light Springfield with a high degree of drop at the heel, was downright wicked when used with full-charge loads. While it may not have come straight back much harder than the present Mauser, it had a nasty habit of bruising my cheek when it whipped upwards. When I switched to reduced loads, I found my shooting improved markedly. A 170-grain Core-Lokt .30-caliber bullet ahead of enough 3031 to drive it around 2500 feet a second was the best one for deer hunting in Colorado. The load was pleasant to shoot and very reliable on deer, holding together and spoiling a minimum of meat even at 60 yards. I would not hesitate, in fact I would prefer, to use the load on moose if I could get bullets for it.

The Core-Lokt bullet is in wide use here, and its performance in all cases to my knowledge is uniformly as advertised, to wit: It mushrooms beautifully to around .60 caliber. The only Core-Lokt I know of that broke up to any extent was one which, fired from a position above and in front of a moose, penetrated and smashed the spine. There is evidence, however, that the Core-Lokt bullet opens a little too soon for deepest penetration.

Locally, sights seem to be at the top of the list of mechanical handicaps to 'straight shooting'. Recently I attempted to sight-in a friend's Enfield. The first group, with the sight completely depressed, was some two feet from the bull at one o'clock. No further sight change was possible without a major operation or the installation of an adjustable sight. Another man explained that he kept the sight of his .348 Winchester on the 300-yard mark because he once killed a moose with it in that position. Upon shooting a group from the same man's

.30-40 Krag 'that had been missing regularly' (if it could be called a group—the front sight looked like a golfball and the barrel appeared to have been swabbed out with salt water for years), I found the gun shot eight inches low at 50 yards. As I see it, the men here get their game because they are hunters, good ones who get so close to their targets that a shotgun slug would serve the purpose. But they may tear up a lot of meat or—and this is worse—they may wound an animal they think their 'lousy gun' has missed.

Speaking of sights, not all reputable makes are adapted to rough handling such as a big-game rifle receives. Many individuals of my acquaintance prefer an open sight simply because their experiences with scopes, and even aperture sights, have been disillusioning because of the instability of the sight or their not being able to see through them. Neither characteristic is unavoidable, any more than is ruggedness born of open sights.

Advertisements notwithstanding, internal adjustments of a scope itself may give trouble. Outstanding, in my experience, are scopes of a popular low-priced make that change windage slightly with elevation adjustments, or vice versa. Also, the 'hunter type' of adjustment is prone to change impact when the lock nut is tightened. One can appreciate what a bellyache sighting-in gets to be when he runs across one of these demons. My humble advice, where speed and dependability are a premium, is to use a necessarily expensive precision scope or none at all. Incidentally, many men have never looked through a really fine glass and they are justified in their condemnation of scopes—if only they would not include *all* scopes.

A large part of the sights and sighting discussion evolves around the business of trajectory and range estimation. With the combination of a gun with rainbow trajectory and bad guessing, shots taken at even close range may go astray. And range estimation is always guesswork. Stepping off innumerable kills, section lines and target ranges should have given me a fair ability at guessing ranges, but I still misjudge distances and miss making kills all too often to delude myself into thinking I can estimate range accurately.

Surprisingly, many shooters are even worse off. I have watched a man shoot a can off a stump to check his sights, considering the distance a hundred yards. Pacing disclosed it a ridiculous thirty yards. A hundred yards is a long way to hit a tin can with an open-sight rifle from the offhand position—fellow egoists. Guessing distances, any distances, is good practice, particularly when the object is roughly the size of a game animal and the distance is paced afterwards. But, of course, one has to know the length of his natural pace.

Because of differences in line of sight and line of bore relation, and differences in individual shooting habits and makes of ammunition, trajectory tables may not be accurate for your needs. I suggest sighting-in at whatever range you normally keep your sights set for, and then firing a series of groups at greater and lesser ranges to learn how far above and below line of sight your rifle and loads will shoot.

None of these factors—mechanical handicaps and poor guesswork, to say nothing of buck fever or just plain being a bum shot—are going to be offset completely by the purchase of a super Magnum. Nay, many will be magnified—or should I say 'magnumfied'? On the other hand, the power of the cartridge can be greatly reduced if and when a shooter recognizes and overcomes these handicaps. Small wonder that many prefer an ultra-powerful cartridge for game hunting.

The most powerful rifle in Alaska? It appears to be the 'obsolete' .30-30. The selection of it, however, is not always by choice, as a rifle, to some natives, *is* a .30-30. Local residents use the .30-30, and one trapper at the head of the bay

Photo by J. M. Greany

A young Kenai bull moose offers an excellent choice of aim. Most Alaskan hunters prefer the head, neck or lung shot for a minimum of meat spoilage

uses it most of the year in preference to his .33 Winchester. Another man uses a .30 Remington on moose, leaving his .30-'06 at home. The .303 British is my nearest neighbor's favorite moose and black bear gun. I might add that few local people hunt brown bear or grizzlys, or feel that their guns are ideal for the sport. Yet they are confident enough their guns will handle any emergency, as they all hunt in bear country.

In the immediate vicinity, though, I think the .30-40 and .30-'06 are most popular, the majority of actions being Enfields, model 70's and Winchester models 95's. The 180-grain bullet predominates—exhaustive research disclosed that no other weight is currently available. The 220 grain is preferred by many, first in the Silvertip and, second, the Core-Lokt. The .270 is becoming more popular here, and several owners of both larger and smaller calibers have expressed a desire to own one as their next rifle. In regards the .270, I was surprised to learn that at least one owner prefers to use the 130-grain bullet even for moose. Many calibers I have failed to mention. The .35 Remington and Winchester, the .405 Winchester, the .300 and 375 Magnums, the .280 Ross, the .257 Roberts and even the .220 Swift are to be found somewhere in this locale as someone's big-game rifle, but they are few.

My stay in Alaska has taught me that one gun is not the same as another gun of the same caliber, one man is not identical with any other, and one set of conditions will seldom answer for another set. Few men need cry in their beer upon reading the latest advertisements, feeling their pet smokepole is obsolete. Sure, precision equipment is desired by those of us who keep up with developments in firearms, but precision equipment is not going to make hunters of us. A few of the persons mentioned in this article will serve to prove that one can be a hunter without using precision equipment. We must learn to get the most from what we have, and to realize that not all gun bugs are born hunters. When we gun bugs get more thrill from bagging game at 60 yards—and can do it—than we do at 600 yards, then we have progressed. ● ● ●

MUSCLES & MARKSMANSHIP

PHYSICAL CONTROL AND CONDITIONING MEAN A LOT, AND ESPECIALLY IF YOU WANT TO GET INTO THE TOP BRACKET

By MAJOR ELLIS LEA

"I CAN'T shoot. I'm too nervous."

How many times have you heard new shooters say that? In the army we have a good answer for such remarks. We say, "If you're so nervous you can't shoot, then you're due to be discharged. Your trouble is not nervousness, but lack of muscular control and conditioning."

Such an answer might not be in order in civilian clubs, for none that I have ever heard of require a physical examination before admitting a man to membership. Therefore it might be possible that your man *is* too nervous to shoot, but that's not probable. Chances are, the main trouble is still a lack of physical control and conditioning.

How to attain this control and conditioning has been the subject of many an article and discussion. I believe that I have one solution to the problem, although it may not be *the* solution. In the first place, in either rifle or pistol shooting we should attempt to make the bones do the work instead of putting it all on the muscles. That's why we have bones.

I recall one man in particular who learned that angle the hard way. He was new in the club and the club was new. We were all anxious to give newcomers a hand in improving their scores, for we knew that this was the thing that would keep them coming back for more. This particular newcomer was a tough nut, for he had done a lot of shooting and had won many turkeys and hams in local contests. But a rifle sling, as far as he was concerned, was something with which a soldier carried his rifle—that was all. We wrapped him in the sling and tried to get him into the prone shooting position. No go. After letting the sling out about a foot, we got the butt to his shoulder and he began to shoot—and complained that the sling was too tight. I knew this song by heart, so I secretly marked the sling. I waited about a month and looked again at his setting.

A sling . . . was something with which a soldier carried his rifle

The sling was up seven holes and he no longer complained of it being tight. Instead he sometimes alibied that a wide shot was caused by the sling being too loose. Regular shooting sessions and a growing ability to relax and let the bones do the work had brought about this change. So much for the bones.

There are three basic ways of attaining shooting conditioning: 1) By plenty of shooting and dry practice; 2) By adapting daily tasks and activities to the demands of shooting condition; and 3) By actual sweat, exercise and hard work. Of the three I will deal only with the first two, since the third is for the big-time pistol or rifle shot, Olympic champion, and would-be Master shooter.

If the reader will bear with a few generalizations I will attempt to point out some of the things that can be done to improve one's shooting ability, noting in passing those things that are peculiar to either pistol or rifle shooting.

The first means of attaining shooting condition, that of dry practice and plenty of shooting, is self-explanatory; but a shooter must be well informed on what is taking place or he will muff an attempt at conditioning by the second means.

If we examine a pistol shooter ready to fire we will find the chief muscles used are those in the calf of the leg; the shoulder muscle; and the forearm muscles of the shooting arm. Other muscles help to some extent or not at all. It is assumed that the shooter is in a relaxed, comfortable position, slumped down on the hips and balanced on the centers of both feet. Even the 'police muscle' or 'German goitre,' as it used to be called, is relaxed and hangs out like Monday's laundry.

Chances are, the main trouble is still lack of physical control

Let's look at the legs first. A building is only as firm as its foundation. A shooter is only as steady as his legs. When fully relaxed I find it necessary only to keep the calf muscles fairly firm to prevent rocking from the ankles or 'body sway'.

The next most important muscle in pistol shooting is the big three-cornered shoulder muscle which lies just below the shoulder joint on the outside of the arm. This muscle not only supports the arm and any clothing you may hang on it but the weight of the pistol as well.

Third in importance is the long stringy muscle on top of the forearm as the pistol is held. This muscle supports the pistol as the sights line up with the eye. A weakness here is especially noticeable in a beginner or in an old shooter when he goes back to the range after a long layoff. Groups with large vertical measurements are mostly caused by lack of condition in this muscle.

The other muscles of the forearm are hardly less important for they determine the grip taken on the weapon.

Now that we have divided the pistol shooting muscles into four groups let's see what can be done to improve their shooting performance.

The first group, leg muscles, can absorb lots of work, especially the calf muscles. Few of us care to go in for calisthenics—they just don't fit into our daily routine unless we are motivated by a strong urge to excel. My idea is to put a mental red tab on those muscles mentioned herein and then make it a point to use them as much as possible during the daily work routine. This is the second approach to muscular conditioning I suggested.

For instance: Let's say you are chairborne in an office. The office is on the third floor and it is 10 AM—time for the morning coffee and the boss is out. You get up to go with Joe. But wait! Look at the file. See that red tab? It means use those shooting muscles. Instead of riding the elevator, talk

Joe into walking down (and up again). Don't do it flat-footedly. Spring off your toes, pull those muscles so you can feel them get warm. Just everyday stuff, but it will help your shooting.

Five PM, and you're off for home. If you carry a package or a weight, use your right hand so as to pull the shoulder muscle and exercise your grip. If you have a small solid object, try gripping it as you go along. All of the above will help either your rifle or handgun shooting.

Should you drive (who doesn't?) and shoot the .45 auto you can toughen the shooting hand by driving the crotch between the thumb and forefinger into the steering wheel with little short jabs. This will toughen the part of the hand that takes such a beating in the early part of the season, or all season long for that matter, if you don't shoot the .45 much. Without the pounding or the shooting one finds an uncontrollable tremor developing after about 30 or 40 rounds with the .45, due to the shock the 'pinching' muscle, between thumb and forefinger, absorbs.

Alcohol, and even tea, are 'unsteadying' when shooting a rifle

When you feel you've had enough pounding on the wheel, begin gripping and releasing it as you drive along.

If, when you get home, you have the time and are in the mood, it is a good idea to have one of those coil-spring grippers around to squeeze every now and then. Regular work on this, a few minutes at a time, will do wonders with your shooting—especially if you shoot the .45 auto. And it won't hurt your standing scores with the rifle, either. Since these gadgets come two to a set keep one at the office and one at home. Whenever you open a drawer or lay eyes on one of them, grab it and squeeze fast until you have to quit—then forget it until the next time.

Keep the calf muscles fairly firm to prevent body sway

If you have a revolver and don't want to buy a gripper, just unload the six-shooter and double action it as long and as fast as you can. This is much better than squeezing a ball, for the latter will shape your hand round and doesn't strengthen the trigger finger particularly. As a former state trooper I used this double action idea to keep my shooting arm and hand in condition even while on duty. Long night patrols were broken by dry, double-action snapping sessions, five to ten minutes apart, until I was forced by fatigue or circumstances to stop.

If you are really in earnest about shooting condition and are going to dry shoot anyway you can make the most of the sessions by weighting the pistol, your shooting arm, or your rifle if it is not already too heavy. Traditional means in the army has been a full canteen of water on a pistol belt looped over the shooting arm. This will do the business but I don't consider it as good for it is a swinging weight and is bound to spoil your dry-shooting aim.

If you shoot the .45 and have an unserviceable magazine, remove the follower and spring, plug the holes in the side of the magazine and fill it with lead. This, when added to the already-heavy .45, will practically bend your arm, but, boy, how it does develop it. With other pistols a non-swinging weight attached to the pistol or the arm or wrist will do the trick.

Some coaches advocate holding a filled milk bottle out like a pistol until it is about to drop. I believe that if a shooter has the time to do this he'd better use a weighted pistol. Of course if none is available or practical, the milk bottle is okay. As a matter of fact, any weight held at arm's length like a pistol for as long as you can stand it will help condition the shooting muscles in the arms. If you are an extrovert and don't care who's looking, grab a handful of books or something heavy wherever you find them and muscle them out from the shoulder until you get too tired to go on. If you are not that extroverted, do that, or something like it, at home—but do it *regularly*.

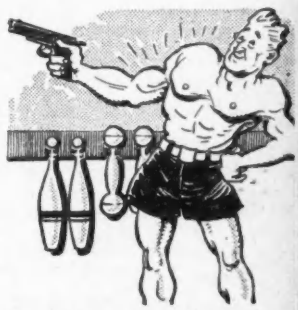
It is assumed that the shooter is in a . . . relaxed position

Since there are so many variations in rifle shooting—army, sporting, and small-bore standing, indoor, outdoor, kneeling, prone, and whatnot—it is difficult to generalize on the training of a rifle shot unless it is known what type of shooting the individual will do. Despite this disadvantage there are a few things that may help the new man to higher scores.

Let's look at a rifle shooter just as we did at the pistol shot, and see what it is that makes a good one what he is.

In prone shooting indoors or outdoors the problem is not so much one of conditioning muscles as it is of nervous reflexes. Any individual who can follow simple directions and who will spend a little time in practice can assume a reasonably good prone position. With some degree of trigger control that person can also shoot good scores prone. With all of the body from the diaphragm to the toes on the ground, plus two elbows, and with the rifle supported by the sling, the left arm, and the right shoulder, the prone position should be effortless. Just relax and squeeze. Plenty of shooting will give one all the conditioning needed.

Let's consider the standing position next. A good bony support will work wonders with our steadiness and our scores in the standing position, just as it does in the other positions. Using either the Army or NRA standing position, or a modification of either, the big problem is to get balanced, to slump down and relax all of the muscles we can. Let the bones do the work. The chief muscles involved in the standing position are those in the biceps of the left arm; the inner left forearm muscles; the big triangular left-shoulder muscle; the calf and shin-bone muscles; and all muscles in the right arm.


Few of us care to go in for calisthenics; they just don't fit

Most beginners in the shooting game are interested in their weapons and will frequently handle them at home. They should make it a practice when so doing to dry shoot an unloaded rifle for at least ten shots. Frequent practice in such small doses will be all that many persons will need to keep their scores moving slowly upward most of the time. This is perhaps the best way of conditioning oneself and of learning to shoot the offhand position as well. The expert spends hours

at it but not necessarily all at one time. Those few short minutes, grabbed when the opportunity is presented, are what counts. Long periods of time are not available to most of us.

At the end of your dry-shooting period, just before you put the rifle away, use the weight of it to help exercise those muscles used in shooting. Push the rifle out from the shoulder with the left hand, then the right, until you get rather tired. Then put the rifle away until you shoot again. Always do these exercises after your dry shooting; otherwise you will be unsteady from the exertion. For the kneeling and sitting positions there is no better means of conditioning yourself than by plenty of shooting. Unless you are really serious about the game and want to go fast and far there is probably no need for the new man to do more than satisfy his normal desire to shoot, plus regular, small doses of dry shooting in position. Some people, true, have special problems in these two positions since their legs, back or shoulders may be stiff or muscle-bound! In such cases they will make more rapid progress if they will do some stretching exercises or more dry shooting.

Instead of riding the elevator, try walking downstairs (and up again)

Relaxation, proper position and some shooting, both dry and live, are what is needed by most new shooters. It is not felt that much sweat should be shed at this stage. As a matter of fact many top-class shooters I know spend little or no time in exercise as such but depend upon short, regular dry-snapping sessions and a moderate amount of shooting to keep them in condition. I have found that about two hours dry shooting a week and four or five range sessions a month were enough to win the all-around aggregate and the .22 and center-fire pistol aggregates in my home state, as well as a number of small-bore gallery titles.

The above stunts, and many like them, are designed for the shooter who wants to condition himself without extra equipment and without a great amount of effort and preparation.

So far we have talked only of the muscular side of shooting training. The best muscular condition can be upset enough to ruin a shooting score by unwise eating or drinking habits. Tobacco (and even food) should be taken moderately before and during matches. Alcohol intake, if at all, should be moderate. I doubt that tea and coffee harm pistol shooters, but I find them unsteadying when shooting the rifle. A cup of coffee before a match will double the movement of the cross-hairs for me. (I am not a habitual coffee drinker.) A cigarette also raises my blood pressure and increases my heartbeat to a noticeable extent, so I abstain from both when rifle shooting.

Dry shooting has its place in this training program, but because of diminishing returns one cannot expect to train on dry shooting alone. At a certain point one becomes relatively disinterested or fatigued to the point that good holding and squeezing are no longer possible. If a suitable physical training program is included with the dry shooting, then much more can be accomplished. Dry shoot first and, after you have lost interest or become too shaky, begin on the exercises. These can be carried on much longer with benefit than can dry shooting.

Our physical training program, when dehydrated to K-ration size looks like this:

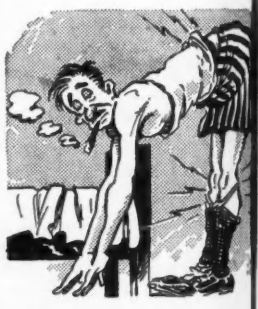
First: Knowing what muscles are principally involved in pistol or rifle shooting, use them often, strenuously, and with a purpose in mind.

Second: Take care of your overall physical setup by doing the things that are good for health. Don't smoke, drink or eat to excess.

Third: Dry shoot regularly. Your eyes need the training just as does your hand and arm. Your sights will stay clearer longer after a season's shooting than they did before the season got well started. If you need glasses, get fitted with proper ones for shooting.

Fourth: Shoot or dry shoot as often as you can but regularly at any rate.

The whole scheme is to make physical training for shooting a part of your everyday activities. A little thought and effort along these lines will improve your shooting ability and your pleasure from shooting. Your goal should be to increase your ability to perform at a certain level for a greater period of time. If you train to finish a two-day match with just enough strength left to stagger to your bed, those last scores will be whing-dings. Build up enough reserve so you can finish like a rookie rushing the chow-line. ♦ ♦ ♦



Put a mental red tab on these muscles, and use them all daily

Free-rifle Shooting—Reborn

Continued from page 15

Shooters will keep looking for the rifle and ammunition that group better than what they have because by using a rifle of superior accuracy the advantage is in the shooter's favor, but my contention is that true competition should not be so dependant on the ultimate in mechanical perfection but upon the abilities of the shooter. Prone shooting is here to stay—that's for sure—but for those who seek competition of another form, position shooting and especially free-rifle shooting could be the answer. Accuracy is important, but it is secondary to a man's abilities to shoot in the various positions.

Those who are skeptical about the chances of the United States regaining the position she once held in international competition should refer to the scores fired in 1930 and compare them to those fired in 1948. The 1930 team won the 300-meter event in Belgium with an average of 1088 over the three-position course. Last year, with much less practice and less accurate rifles and ammunition, the squad averaged 1068. In the same competition, the Swiss, who shoot the course of fire to a great extent, averaged a creditable 1093, but there was a 42-point gap between their first and third men.

For various reasons it is doubtful if many of the European or South American countries could send representatives to the United States for some time. In the meantime, what is to prevent American shooters from going to them? I feel confident that if the shooters in this country were given early enough advance notice of and assistance in attending Pan American and other International matches, an excellent representation will be had at all tryouts held by the NRA. ♦ ♦ ♦

THE OLD COACH'S PAGE

Usually a shooter is aware of other shooters on the range, particularly if he is interested in observing how someone else attains the score he does or in comparing another's technique to his own. Each individual looks for details which usually would be overlooked by another, if only because he is alert to a distinct phase of technique. For instance, Colonel Charles E. Densford has been aware of the ways others show determination.

DETERMINATION HELPS

IT'S ODD THAT so many people, each with a hat full of how-to-shoot information, begin match competition with the will to win but without the prerequisite of determination. If you have your mind made up to do some good shooting, the chances are that you will. Such firm intention may be expressed in a number of ways. Let me cite you some examples.

One of the most striking and effective examples of determination I ever saw was shown by the colorful and capable Joe Benner. We were shooting side by side in a rapid-fire match at Perry in '47. As the commands began to issue from the loud speaker, I heard Joe say, "Thirty-five, you moron." Somewhat startled, I looked down at the number on my bench, and saw that I was on 36, so I was greatly relieved to learn that he was not referring to me. Joe was talking to himself, and was indulging in a little verbal flagellation to make sure that he didn't put good shots on the target of some other competitor.

Joe goes through that little routine for every match, I found out. By carefully making sure that he is on the right target, Joe expresses his determination to put all of his shots in the right place. It follows naturally that such determination carries over into holding and squeezing, with results that you have seen if you have watched Joe for the last few years.

The Iron Man himself, Harry Reeves, has been guilty recently of pouring valuable points down a rathole by putting shots on the wrong target. I should not presume to instruct Harry in the art of shooting, but obviously Benner's little trick would have saved him some points. And brother, if it will help Harry Reeves, you may be sure that it would help you.

Jess Woody, perennial champion of Texas, offers about as good an example of the practical application of determination as I can recall. I remember well the first time I saw Jess in action on the pistol range. It was at the old Exposition Grounds Range in San Antonio, in 1936. Jess had just taken up the sport. He was so green that he shot his timed and rapid fire *double-action!* With such a start as that, to get to his present position of number five man in the United States, he really must have had his mind made up to be a pistol shooter.

Jess' determination expresses itself in a number of ways, all of which I can recommend to all pistol shooters, from the bottom to the top. Consider his reloading practices. He loads all his .38 and .45 cartridges on a popular make of tool, just as others do, only he puts his own priceless ingredient of determination into the process. He stops loading at intervals and weighs the powder charge, to make sure that there shall be no variations in push behind his projectiles. He matches up the cases, making sure that in each batch the cannelures are the same. With .45's, he drops each hull into the barrel of the gun to make sure that it will enter without jamming in the middle of a match. These are little things, but taken all together they spell determination—with a capital D. By leaving practically nothing to chance, he expresses his firm resolve that the scores he turns in will be as good as Jess Woody can shoot them.

Jess has a record of every shot he has ever fired in practice and matches. Why? Apparently it is a part of his policy of leaving nothing to chance. He knows what scores he has shot in every match since 1936, and many of the scores shot by his closest competitors. Often he can quote them to you without reference to his notes. He knows what the records are, others as well as his own. He has a passion amounting to obsession for having things right. He has been accused of carrying that to an extreme by interfering with the scoring of other people's targets. For my money, that is not a delicate point. Either the scoring is right or it is wrong. Jess wants it to be right. My confidence in his character and ability is such that, in case of argument, I'll take Jess against the field. His determination to be as good a pistol shooter as his make-up will allow provides a shining example to anyone who wants to improve his shooting.

The Infantry Pistol Team of 1939, under the leadership of Captain (now Colonel) Charles G. Rau, provided a good illustration of the application of determination. In the timed- and rapid-fire stages of matches, they leaned forward, putting weight on the balls of their feet rather than on their heels. The discovery was pleasing to me, for I had been doing the same thing for a couple of years.

Although the practice was never discussed with the team, I figured that they arrived at it in the same way as I did, this way:

In timed and rapid, especially rapid, you have no time to waste. Naturally you have to hold and squeeze, but you have to hurry. If you are on your heels, as most people are, you have a tendency to relax and take it easy, with the result that time runs out on you often. By leaning forward, you key your whole body to speed up the process of holding and squeezing. The posture is really just another application of the principle of determination—in this case to get all shots off in the allotted time. The reasoning may not be sound, but I know that it works. (If any of the members of that Infantry Team read this, I would be interested in learning whether I am right in the assumption that we arrived at the posture via the same lines of thought.)

There must be many other ways in which you can apply the principle of determination to your particular style of shooting. Each of you must figure out your own destiny in that regard. But these few examples will give you the general idea, which is that if you are determined to do some good shooting, and stay with that determination as doggedly as your philosophy allows, the chances are that you will give a better account of yourself than you would without the bulldog ingredient. Try it and see. ♦ ♦ ♦

THE SPOTTING SCOPE -- April 1949

Members of the Outdoor Writers Association of America who met in Washington early last month displayed great interest in shooting activities and problems . . . particularly junior training, legislation, and reestablishment of the full appropriation to the National Board for the Promotion of Rifle Practice. . . . The 1,100 members, which include most of our newspaper outdoor editors, are a powerful ally to the NRA and member clubs. . . . Stan Smith, Outdoor Editor of the New York Daily News, will plug junior training and competition in his columns as soon as interested metropolitan clubs give him information on their facilities and program. . . . One of shooting's best friends in the east is Irv Cohen who writes for the Charleston Daily Mail and other West Virginia papers.

The 1,400 delegates to the 14th North American Wildlife Conference, also in Washington last March, were astonished to hear Michigan conservationist I. H. Bartlett's charge that not enough deer are being killed by hunters. . . . Bartlett estimated that whereas there were 4,000,000 white tail deer in North America during primitive times, there are now some 6,000,000 in two-thirds the land area . . . leaving a "vulnerable surplus" of 1,200,000 which cannot be supported by the carrying capacity of the area. . . . Pointing out that last year hunters harvested only 600,000 animals (or one-half of what they should), Bartlett called on game managers to establish proper bag limits and seasons to eliminate surplus deer and prevent crop damage and destruction of thousands of forest acres by starving deer.

The more than 400 teams and 3,000 individuals who fired last month in the NRA's National Junior Championships represented a record entry for the big event . . . and considered with the more than 700 team entries in the monthly postal events, it points up the rapidly climbing interest in the junior program. . . . Dates for the International matches at Buenos Aires, Argentina, this year have been changed . . . to November 4-13, inclusive. . . . Plans for U. S. team tryouts probably will be announced in the next issue. . . . Anti-gun bills aimed at juniors in New Mexico and Massachusetts have been squelched for this year, at least.

Credit many of our junior club instructors with a bang-up job of presenting a case with their letters to congressmen on the DCM appropriation. . . . Also Fred Mills, National Director of Health and Safety Services of the Boy Scouts of America, for a fine series of safety posters for youngsters . . . including one on safe shooting. . . . Now affiliating with the NRA is the Kingsburg (Calif.) Gun Club which has a $40,000 clubhouse and trap layout . . . and plans for outdoor rifle and pistol ranges and a junior program. . . . The Zanesville (Ohio) Rifle and Pistol Club is assured of good publicity . . . since its secretary, C. C. Stebbins, is also a local newspaper editor. . . . California Highway Patrol's 50-point pistol range, rapidly nearing completion at Bakersfield, will be one of the best on the coast . . . with a post theater moved in to serve as a clubhouse.

NRA Competitions Section reports that 414 rifle and pistol outdoor tournaments have been registered up to March 15 . . . giving indication that 1949 will be a top year and overshadow last year's total of 497 outdoor and indoor events. . . . Man of the Month: Ohio State Representative John J. Farley, whose letter to the National Rifle Association is reproduced on page 6 of this issue. . . . Rep. Farley's action in killing his own bill (H. B. 246) in the State Legislature came as a result of an NRA Legislative Bulletin to Ohio members . . . and proves that he is a big enough man to admit a mistake and to correct it. . . . The Morley and District Home Guard Rifle Club (Address: E. L. Richardson, Ravensworth, Dewsbury Road, Tingley, Nr. Wakefield, England) is surprised that its challenge to shoot against U. S. clubs on a postal basis was not taken up . . . and so are we. . . . Trick of the Month: George Hatfield, of Sault Ste. Marie, Ontario, put the muzzle of a .22 caliber rifle in his mouth and pulled the trigger . . . then spit out the bullet after it ran around the inside of his false teeth. . . . Only damage was a cut tongue and wrecked uppers. . . . Don't forget the National Convention dates . . . October 17-21 at Denver.

Ray Stann

Regional Championship Dates Set; Nationals in September

All plans for the regional championships as decided by the Executive Committee of the NRA are now complete. The first of the twenty-two 1949 championships will be fired at Phoenix, Arizona, on June 4-5, and the last at Bakersfield, California, August 19-20-21. The schedule will clear the decks for the holding of the National Rifle and Pistol Championships over the Labor Day weekend.

A breakdown of the regional dates shows that smallbore shooters have a choice of four June tournaments, five July dates and two in August. On the other hand, only one pistol championship will be fired in June, eight in July, and two in August. A complete listing of all dates and places is carried below.

In order to compete in the National Rifle and Pistol Championships, competitive shooters will have to qualify in a regional championship. The competitor will be able to compete in only one pistol and one rifle regional for qualification to the big championship. In other words, he can shoot in two regionals, but one has to be pistol and the other rifle. In making his selections, the competitor does not have to give any consideration to territorial boundaries.

Classification will not be considered for qualification to shoot in the national championships. A shooter to compete in the national championship field will have to finish in the first ten or fifteen per cent of all the competitors at the regional tournament of his selection. The exact percentage will be announced later. There will be no national woman's or junior championships. All targeteers will compete in one open field.

The NRA will pay expenses of the twenty-two regional champions to the National Championships and, in addition, put up from $15,000 to $20,000 worth of prizes to be distributed equally at the twenty-two tournaments.

As for the National Championships, the picture, as yet, is not quite clear. The Executive Committee at its February meeting favored Ft. Dodge, Des Moines, Iowa, as the location over the Labor Day weekend and directed that all efforts be made in this direction. Harry D. Linn, a member of the NRA Executive Committee, from Iowa, will submit his final report in a few weeks. As soon as the picture has cleared and a final decision as to location has been made, it will be reported in this space. However, there seems to be no doubt that the championships will be fired over the Labor Day weekend.

While the plans for the smallbore and pistol shooters are settled, the big bore program is still extremely fluid. For a full report on the present situation, read the "National Appropriation" story below.

The locations and dates of the smallbore and pistol regional championships are:

PISTOL

Poughkeepsie, N. Y.	July 2-3-4
Quantico, Va.	July 2-3-4
Jacksonville, Fla.	June 24-25-26-27
Flint, Mich.	July 16-17
Davenport, Iowa	July 22-23-24
Dallas, Texas	July 2-3-4
Denver, Colo.	July 8-9-10
Anaconda, Mont.	July 16-17
Prescott, Ariz.	August 12-13-14
Seattle, Wash.	July 30-31
Bakersfield, Calif.	August 19-20-21

SMALLBORE

Middlefield, Conn.	July 9-10
Harrisburg, Pa.	July 23-24
Chattanooga, Tenn.	August 13-14
Bristol, Ind.	July 2-3
Des Moines, Iowa	June 25-26
Waco, Texas	June 25-26
Denver, Colo.	June 25-26
Anaconda, Mont.	July 2-3
Phoenix, Ariz.	June 4-5
Portland, Ore.	August 6-7
Los Angeles, Calif.	July 16-17

NATIONAL APPROPRIATIONS

The fight to restore the National Match and civilian rifle club appropriations to the Federal Budget mentioned in our March editorial is now well underway. The degree of success will be in direct proportion to the amount of effort put into the battle by sportsmen who sincerely believe in the value to the country of civilian marksmanship training. The March *American Rifleman* carried a list of the Congressmen who will be instrumental in the return to the budget of this one million and seventy-five thousand dollar appropriation if they are convinced of its importance.

In writing to these Congressmen relative to this appropriation for the National Board for the Promotion of Rifle Practice, members may wish to point out some of the following facts: The National Matches and Small Arms Firing School are the keystone of a national civilian marksmanship program that reaches down through nearly five hundred NRA Registered Rifle and Pistol Tournaments to provide marksmanship training and competition to over five thousand adult and junior rifle clubs and over three hundred thousand individual members of the National Rifle Association.

The National Matches and the civilian rifle club program produced 450 small arms instructors who were commissioned in the Armed Forces during the war to supervise small arms training programs for a million and a half men.

In addition, 2,862 pre-induction small arms firing schools approved by the War Department were conducted on 1,500 civilian club ranges by men too old or physically disqualified for military service. One hundred and sixty thousand men were given basic training in these schools without one cent of expense to the taxpayers.

The production of commercial arms and ammunition to meet the needs of civilian shooters, whose interest is maintained by the National Match and civilian rifle club program, is a major contribution to the maintenance of a small arms and ammunition industry, without expense to the taxpayers, which is vital to our national defense.

The National Matches and civilian rifle club program provide mass testing grounds and a competitive spirit between private industry and government arsenals which has given us a service rifle ammunition superior to any in the world.

The National Matches and civilian rifle club program provided a mass proving ground for the development of improvements in service rifle stocks and sights which were incorporated in the M1 service rifle (Garand), and resulted in the "know how" on which the Army and Marine Corps based their specifications for telescopic sights and sniper rifles during World War II.

This is a matter vitally affecting all shooters. We earnestly hope that all who believe in the importance of the job to be done will join in the campaign and let the Congressmen on the House Appropriations Committee understand the importance to this country of the functions of the National Board for the Promotion of Rifle Practice in conducting the National Matches and in assistance to civilians in marksmanship training.

EXPULSION OF MEMBERS

During the February 26th meeting of the NRA Executive Committee, charges were heard against the following NRA members: B. N. Elliott, 526 E. Jion, Tulsa, Oklahoma; Edward Rosing, 1334 33rd Avenue, San Francisco, California; Kenneth L. Yount, R. D. 3, Kittanning, Pennsylvania, and Jim A. Forst, 4428a Swan Avenue, St. Louis, Missouri.

After the charges were heard against each of those named, the Executive Committee members present voted unanimously to expel each from NRA membership and from membership in any NRA affiliated club. Members B. N. Elliott and Edward Rosing were charged with violations of the National Classification rules for competitors.

REPORT FROM DCM

More than half of the 80,000 rifle purchase requests received during October, 1948, have now been processed and referred to shipping arsenals. (Rifle sales were discontinued at the end of October.) The balance of approximately 35,000 October rifle orders is being processed as fast as possible.

Besides the unavoidable processing delay, other factors operate to delay the shipment of rifles. These factors are: (1) The shortage of personnel at shipping arsenals, (2) the volume of work of a higher priority in the ordnance arsenals, (3) the exhaustion of rifles at a particular arsenal, requiring re-processing by the DCM and rewriting of the purchase request on another arsenal, and (4) the time required for careful checking and inspection to insure shipment only of rifles meeting Ordnance Department standards of accuracy and usability.

The DCM has been notified that the supply of new leather gun slings has become exhausted. There remains, however, an adequate supply of used leather slings, all of which are in serviceable condition.

These DCM notes are published for the information of members, who have ordered ordnance material, to keep them advised of developments and thus eliminate, insofar as possible, unnecessary correspondence regarding the processing of such orders.

PISTOL CLASSIFICATION

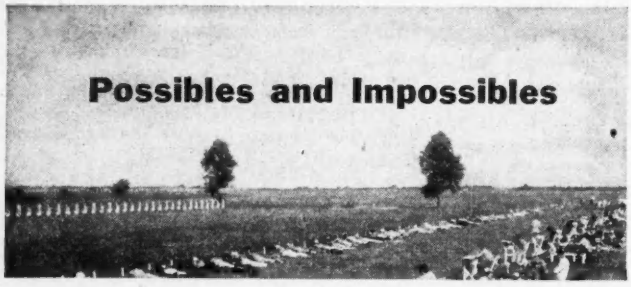
During the meeting of the "Pistol Panel" conducted in connection with the 1948 National Rifle Association Convention last October, it was recommended that the .22 Caliber and Center Fire Classifications be split into two separate and distinct classes. The proposal was studied after the close of the convention and was placed on the

A PAPER FOR PEOPLE WHO SHOOT

Rifle Re

VOL. 12, NO. 4 BRIDGEPORT, APRIL,

Possibles and Impossibles



We wonder how many of you will remember the old "Wheel Chair Special Match" that Frank Kahrs mentioned — 'way back in the January, 1948, issue. At any rate, it was inevitable that someone would take him up on it. A shooter from the Pacific Coast called his bluff and told Frank he was "an old toughie and hard to get along with." We received a telegram from the Secretary of the Los Angeles Rifle and Revolver Club stating that the "Match" was held on their range and that both shooters had lady attendants. They shot from the sitting and prone position, and the old maestro was nosed out by one point.

* * *

A few days ago we received a letter from one of our readers out West telling us that when you really want to get down to some serious plinking, especially on "prairie dogs," you can't beat a target rifle and a good scope. He claims there's plenty of excellent 100- to 200-yard shooting to be had on a sunny afternoon, and it's an enjoyable way to practice. Many times the target is just a pair of eyes peeking over a mound at you. By the way, this shooter was using a Model 37 and a 10 power scope. Hmm — wonder if anybody has tried this combination on chucks?

* * *

Here is one that proves there is a Santa Claus. The "Remington Reporter," our Bridgeport plant paper, discovered that one of our technical men was searching for a pedometer to record his walking distance in the plant and on his hunting trips. A former Company field representative and well-known rifle shooter who is now retired and living in Boise, Idaho, read this item and immediately sent the technical man in Bridgeport a fine Swiss pedometer as a gift. He didn't know him, but here is what he said, "Since I quit roving the mountains of Wyoming and have no further use for my pedometer, I am very much pleased to send it along." Needless to say, the technical man was tickled pink. The shooter who sent the pedometer probably used it to measure his leg mileage along the line at Camp Perry in the days when he shot in both the big bore and small bore matches. Now that same pedometer is measuring the distance an ammunition maker travels every day.

* * *

A short time ago we received a program from the Canadian Small Bore Association which gave details of its classification system for indoor handgun matches. Under the C.S.B.A. classification system, each competitor shoots only against others of comparable ability, and the prize list in each class is identical. This system eliminates discouragement and substitutes an urge to climb through the classes into "master" competition. This organization has many such progressive ideas which are paying off in increased interest in handgun competition and increased membership. If your club would like to add a few new members (and what club wouldn't) and keep competition hot even among the tyros, it might be a good idea to bring up the C.S.B.A. classification system for discussion at your next meeting.

INDOOR CIR T WITH POP A

Oldtimers "Show 'Em How" in Hot L. I. Competition

"We laughed when they stepped up to the firing line," an onlooker reports. But some oldtimers in a recent Bethpage, L. I., tournament quickly showed they meant business.

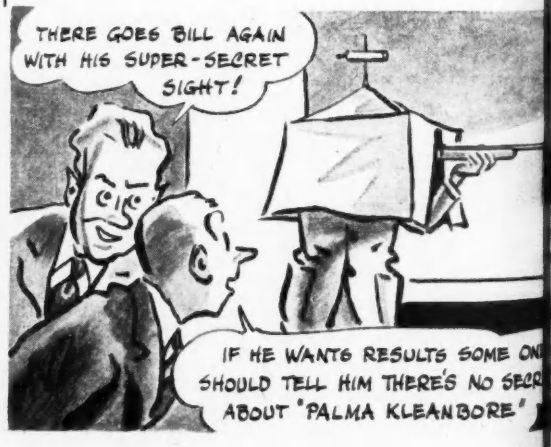
They came out to the match "just to watch." But it seems the old powder fever got to work. They entered a couple of the events, and before many rounds they were giving the younger shooters an exhibition of "how to do it" in no uncertain terms. Although they hadn't shot for years, these fine veterans placed near the top in scoring. Now they're out of retirement and having the time of their lives showing the world that there's no age limit in the shooting sports— that a new lifetime of shooting fun can begin at 60!

Clean-up Drives Unde As Shooters Prepare Outdoor Season

Experienced club m know the importance shooting conditions an tator facilities. That many clubs are getting t on their 1949 "clean-up All able-bodied club m are being assigned jobs around the club. So taking paint-brush in h brighten up the club ho target frames. Others pairing backstops. 'Mo agree that covered firing are of prime importa any modern shooting Every improvement mak increased interest on th of shooters and spec alike. And, with the o season blowing in on Spring breezes, the tim action is right now!

M/37

AROUND OUR CLUB . . . "In the dark"

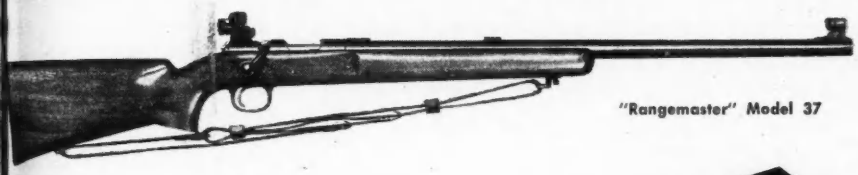

THERE GOES BILL AGAIN WITH HIS SUPER-SECRET SIGHT!
IF HE WANTS RESULTS SOME ON SHOULD TELL HIM THERE'S NO SEC ABOUT "PALMA KLEANBORE"

Remington News

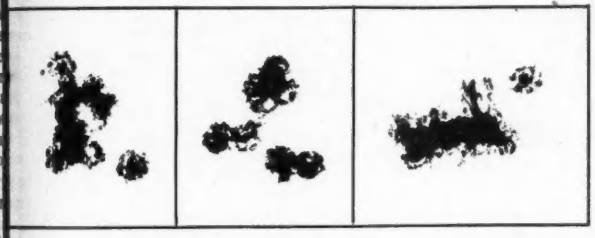
WEATHER:
PATIENCE! THERE'S NOT MUCH BAD WEATHER LEFT

EPORT, APRIL, 1949

RT REPORTS HOT GROUPS PAR REMINGTON MODEL 37



"Rangemaster" Model 37



M/37 at 100 yards from machine rest with "Police Targetmaster" ammunition. 10 shot groups—actual size.

For accuracy — Remington Match Ammunition—"Palma Kleanbore" and "Police Targetmaster."

Many Shooters Tab Remington Match Ammo "Best for High Scores"

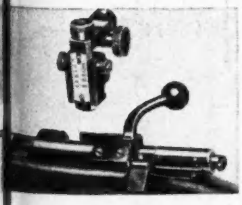
As the 1948-49 indoor season draws to a bang-up close, one result is crystal clear: a lot of hot shots have achieved torrid groups shooting a Model 37. Shooters say that for backing up their skill to the utmost there's no rifle like the 37.

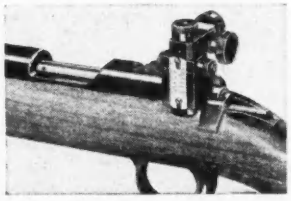
Built like a fine watch, the Model 37 is especially constructed with one aim—consistent, hairline accuracy. Its "Miracle Trigger" is highly praised. Shooters like its smooth, lightning-fast let-off without perceptible movement or backlash. They go for the single sighting plane, for both iron sights and scope, shrouded bolt, and close-fitting parts that help maintain a constant center of impact over a long series of shots.

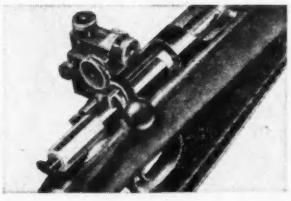
A glance at the groups above shows the accuracy of the Model 37 and Remington "Police Targetmaster" match ammunition. Such accuracy is assured by test after gruelling test in Remington ballistics laboratories. From raw material to finished product, Remington ammo is checked and rechecked to make sure it backs up your sighting and squeezing with precision performance.

SHOOTERS SEE "SOMETHING SPECIAL"

PECIALLY DESIGNED REAR SIGHT OF THE MODEL 37







's small wonder that the ington Model 37 rear sight the "something special" target shooters like, since orporates the ideas of of the finest shots and orities on shooting in the try.

ooters note that the line ht with either iron sights escope is identically the same, thus eliminating the need for a special cheek piece. Also, the sight can be instantly attached and removed without changing the sight setting. Movement of the windage and elevation knobs on the sight conforms with the adjustments on standard telescope mounts.

These are just a few of the exceptionally fine features of the Remington Model 37 rear sight. An excellent combination of sturdy construction and functional efficiency, this sight is considered "tops" by leading shooters. It has certainly done its share to win tremendous acceptance for the Model 37 "Rangemaster" among the shooting fraternity.

Rangemaster, Palma, Kleanbore and Targetmaster are Reg. U. S. Pat Off. by Remington Arms Company, Inc., Bridgeport 2, Conn.

agenda of the National Rifle Association's Executive Committee. The Committee, on February 26, voted in favor of the change, and the new procedure will be put into effect just as soon as all complications can be worked out. In the meantime, competitors will continue to fire under the procedure outlined in the current 1949 Pistol Rulebook. Complete details will be mailed to all registered tournament pistol shooters, tournament sponsors and referees just as soon as possible.

Clubs and COMPETITORS

The 1949 International Matches, to be fired in Buenos Aires, will be held from November 4th to November 13th rather than in October as was originally indicated.

The United States will send both rifle and pistol teams to Rio de Janeiro. The Executive Committee of the NRA had its regular meeting on February 26 and instructed the President to appoint two committees, one to make the necessary arrangements for the selection of the United States International Teams, and the other, made up of technical experts, to select and to have available the proper International Match equipment with which to outfit the United States Teams when selected. Additional information on the tryouts for the 1949 International Teams will appear in subsequent issues of *The American Rifleman.*

☆ ☆ ☆

During the month of January, twenty-one young Expert Riflemen entered the ranks of NRA junior Distinguished Riflemen. Reaching the top rung on the ladder of qualifications were: Lee Aldridge, Bedford, Ohio; Richard Johnson, Arlington, Va.; John Bachohr, Jr., Pittsburgh, Pa.; Warren Happel, Quincy, Ill.; Lloyd Havird, Augusta, Ga.; Edward Greeno, Aberdeen, Wash.; Louis Tremblay, Balboa, C. Z.; Jerry Custead, Independence, Mo.; F. T. Dooley, Independence, Mo.; Carlin Talcott, Independence, Mo.; Kawyn Moody, Jacksonville, Ill.; Lawrence Crawford, Jacksonville, Ill.; John Lanning, Middle Village, N. Y.; Allen Breig, Dayton, Ohio; David Olive, Evansville, Ind.; Carlos Smith, Washington, D. C.; John Nye, Kenmore, N. Y.; William Goa, Denver, Colo.; John Caruso, Hawthorne, N. J.; Donald Harris, Asheville, N. C.; Louis Wells, Independence, Mo.

☆ ☆ ☆

A match which has been drummed up and threatened for the past ten years finally took place at the Los Angeles Rifle and Revolver Club range at Alhambra, California, when the two famous old timers, Frank Kahrs and L. A. "Pappy" Pope, squared off for 20 shots at 50 yards from a sitting position in wheel chairs.

Pappy won the match by one point and Kahrs has challenged him to a return engagement on the same range ten years from now.

☆ ☆ ☆

The Rifle Club of London Transport has made a request through the State Department for postal matches with a rifle club in the United States, preferably in the New York City area. The London club shoots small bore on a 75-foot range.

Clubs interested in a trans-Atlantic postal match should write Mr. A. E. Atkins, the London Transport Rifle Club, Central Rifle Range, Baker Street Station, London N. W., 1.

☆ ☆ ☆

The 1949 Outdoor Registered Tournament Schedule is the largest listing of registered NRA tournaments, rifle and pistol, ever published.

The schedule is designed and arranged to make it easy for shooters to pick tournaments they want to attend well in advance.

Information is provided so that all arrangements can be completed by mail, programs obtained and advance entries made.

All tournaments listed were required to submit their dates prior to March 1. Some tournaments that were unable to meet this deadline will also be registered during the season. Unless such tournaments are State Championships, however, they cannot be given any general listing by the Association.

Only State and Regional Championships will be listed in the coming events column of *The American Rifleman.*

The Registered Tournament Schedule will be mailed free to all registered tournament shooters now on the NRA tournament shooters' list, to all affiliated club secretaries, to all referees and to any other member of the National Rifle Association on request. It will still be advisable, as the outdoor season goes along, to check the coming events column of *The Rifleman* for additional Class "B" Tournaments.

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Since national records were last published in *The Rifleman,* several changes have taken place. Below are the pistol changes. Smallbore will be carried in May.

☆ ☆ ☆

OUTDOOR PISTOL

Individual, Center Fire:		
Camp Perry Course		
E. E. Jones, L. A., Calif.	1948	299
Individual, .45 Caliber:		
Camp Perry Course		
Don Millican	1948	297
Four-Man Team:		
.22 Camp Perry Course		
L. A. Police	1948	1187
Individual .22 Caliber (Women)		
50 Yard Slow Fire		
Gloria Norton, S. F., Calif.	1948	190
Esther Sichler, Temple City, Cal.	1940	190
Individual .45 Caliber (Women)		
National Match Course		
Gloria Norton, S. F., Calif.	1948	277

GALLERY PISTOL

Individual, .22 Caliber (Women)		
20 Yard Slow Fire		
Alice Matthews, Broomall, Pa.	1948	174
20 Yard Rapid Fire		
Alice Matthews, Broomall, Pa.	1948	192
20 Yard 3 Stage Course		
Alice Matthews, Broomall, Pa.	1948	284
50 Foot 3 Stage Course		
Maria Hulseman, Baltimore, Md.	1948	277
Individual, Center Fire (Women)		
20 Yard Rapid Fire		
Alice Matthews, Broomall, Pa.	1948	171
20 Yard 3 Stage Course		
Alice Matthews, Broomall, Pa.	1948	278

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Listed below is action taken by the NRA Executive Committee on Club Activities at its last meeting.

1. Effective June 1, 1949, a Charter Fee of $10.00 will be charged all Senior Rifle and Pistol Clubs at the time of original affiliation.

2. The Secretary of the NRA will discontinue to affiliate Class "B" Clubs effective June 1, 1949, except those composed exclusively of regularly enrolled members of the Armed Forces or Police or any of its political subdivisions. The change will not affect Class "B" Clubs affiliated previous to that date. Effective June 1, 1949, the annual dues for Class "B" Clubs will be $15.00 per year.

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The Great Lakes Gallery Rifle Championship, sponsored by the Roseland Gun Club, Chicago, Ill., fired February 12-13 and 19-20, attracted 123 competitors. Jarvis M. Ter Haar, Holland, Mich., took the grand aggregate with 1253 out of a possible 1300 points. Russell Kleis, also of Holland, finished second with 1241, as Raymond Swanson, Chicago, Ill., rounded out the first three. Ter Haar fired 573, iron sights, and 680, any sights. Two new national junior records were set. Robert Coffman, Chicago, fired 285 in the any sight prone, kneeling and standing match, and Robert P. Grimesey, Janesville, Wis., 290 in prone, sitting and standing. Ruth F. MacDonald, Homer, Ill., was high woman with 1167.

☆ ☆ ☆

Ervin Brehm, Dearborn, Mich., topped 256 competitors to win the Twenty-fourth Annual Gallery Rifle Tournament of the Ohio Rifle and Pistol Association in Columbus,

NATIONAL RIFLE ASSOCIATION:

Headquarters Staff

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C. B. LISTER, *Executive Director*
LOUIS LUCAS, *Treasurer and Business Manager*
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F. L. WYMAN, *Secretary and Club Activities*
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R. J. STANN, *Public Relations Director*
P. B. CARDINAL R. L. REISH
JOHN SCOFIELD, *American Rifleman*
J. A. HARPER
E. M. CHASE, *Cashier*

Field Representatives

Midwestern — Dow Smith, Orpheum Theatre Bldg., Elkhart, Indiana
Far Southwestern — Lee Echols, 4752 Palm Street, La Mesa, Calif.
Northeastern — E. F. Bridgman, 116 Elm Street, West Springfield, Mass.

Competitions Committees

Small Bore

Col. F. W. Parker, Jr. — Chicago, Ill.
E. N. Littleton — Bowling Green, Ohio
O. R. Landet — Anaconda, Mont.
L. W. Abrams — Clearwater, Fla.
Samuel Tekulsky — New York, N. Y.
L. A. Pope — Los Angeles, Calif.
George Whittington — Amarillo, Texas
C. M. Styer — Seattle, Wash.
Harry Linn — Des Moines, Iowa
P. H. Teachout — East Burke, Vt.
C. F. Sterbutzel — Connellsville, Pa.
Wallace H. Davis — Highland Park, Ill.
A. W. Nine — Knoxville, Tenn

Junior Advisory

J. A. Badeaux — Thebodaux, La.
Fred C. Mills — New York, N. Y.
L. A. Pope — Los Angeles, Calif.
James Affleck — Pittsburgh, Pa.
Russell Wiles — Oregon, Ill.
J. E. LaBonde — Racine, Wis.
Mrs. Edna White — Portsmouth, N. H.
Lt. Col. P. S. Wainwright — West Hartford, Conn.
Frank B. Hill — Nashville, Tenn.
George W. Libby — Spokane, Wash.
R. L. Rice — Akron, Ohio
William E. Meinscher — Bellville, Texas
Frank Bromley — South Portland, Me.
G. E. Damon — Greeley, Colo.
Lt. Henry Leland — Sparrows Point, Md.

Ohio, on February 19-20. He scored 1061 in the grand aggregate to tie the State record. Ruth Temple, Dayton, repeated her 1948 win to take the women's title with an aggregate of 586. Everett Martin, Roseville, Mich., copped the junior aggregate with 582. The Tewes Trophy, a 30 shot prone metallic sight event, was won by Fred K. Spetnagel, Chillicothe, Ohio, with a possible score of 300 plus 27 additional tens. Jack Hardman, Akron, tied the national junior record for the three position, metallic sights shoot with a score of 285.

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JUNIOR POSTAL MATCHES

At the half-way mark in the four match series of NRA junior team postal rifle competition, the Detroit Edison juniors have taken over the lead in the "open", or two position division, with an aggregate score of 1857. Close behind and tied at 1851 are the teams of Will Rogers High School, Tulsa, and the Glen Post VFW club, Seattle.

Munhall High tops the non-military scholastic group with 996 (all prone), with a point margin over Upper Darby High. Third place is held by St. Louis' Grover Cleveland High with 992.

In the military scholastic competition, Xavier High, New York City, has a comfortable lead with 988. St. Paul's Cretin High School is in second place at 978, while Phoenix Union High's 972 holds down third.

In the non-scholastic prone firing, Arlington Rim-Fire has the lead with 989. Detroit shares second place, just two points behind, with the Glen Post shooters.

The Seattle VFW Club also shows real class in the special "cub" division. Its 980 leads Adobe Walls (967) and the 966 carded by the Polo Community High Schools.

Munhall High has taken over top spot among the girls' teams. The girls fired a 498 in December to give them a total of 990. Clymer High is now second with 981 while last month's leader, Mansfield YMCA, is third with 976.

COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

Outdoor Class C tournaments marked (*) are to be fired prior to the time the 1949 Outdoor Registered Tournament Schedule is published. After publication of the schedule, about April 1, Class C tournaments will not be listed.

APRIL

9-10 (B) GEORGIA—Southeastern Spring Small-bore Rifle Tournament at Savannah, Georgia. Gerald Storey, 2013 Reynolds Street, Savannah, Georgia (Adv)

***9-10 (C)** TEXAS—Second Annual Bluebonnet Small Bore Rifle Tournament at Waco, Texas. Ramsey Powell, Care Citizens National Bank, Waco, Texas (Adv)

9-10 (B) INDIANA—1949 Gallery Pistol Championship of the Indiana State Rifle Ass'n at Indianapolis, Indiana. Indiana State Rifle Association, 711 North Penn. Street, Indianapolis, Indiana

***9-10 (C)** TEXAS—Second Annual Bluebonnet Small-bore Rifle Tournament at Waco, Texas. Ramsey Powell, c/o Citizens National Bank, Waco, Texas (Adv)

10 (B) WYOMING—Central Wyoming and Wyoming State Gallery Rifle Championship at Douglas, Wyoming. Vance Leeper, Box 56, Douglas, Wyoming

14-16 and 18 (B) MARYLAND—Third Annual U. S. Aggies Gallery Rifle Championship at College Park, Maryland. Freeman Morgan, 7209 14th Avenue, Takoma Park, Maryland (Adv-Ltd)

***17 (C)** TEXAS—Small-bore Rifle Tournament at Houston, Texas. Grace Cross, 12734 Coulson Drive, Houston 15, Texas

***17 (C)** CALIFORNIA—San Francisco Police Pistol Monthly Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California

23-24 (B) NEW HAMPSHIRE—New Hampshire State Gallery Rifle Tournament at Durham, New Hampshire. Del Main, Durham, New Hampshire (Adv-Ltd)

***24 (C)** FLORIDA—Florida West Coast Spring Small-bore Rifle Championship at Clearwater, Florida. L. W. Abrams, 705 Prospect Avenue, Clearwater, Florida (Adv-Ltd)

***23-24 (C)** TEXAS—Fiesta of San Jacinto Small Bore Rifle Tournament at San Antonio, Texas. A. L. Gehrels, 811 Drexel Avenue, San Antonio, Texas (Adv)

24 (B) OREGON—Oregon State Gallery Rifle Championship at Hillsboro, Oregon. Willis B. Miller, 1432 Liberty Street, Portland 11, Oregon (Adv-Ltd)

***24 (C)** NEW YORK—Small Bore Rifle Tournament at Bethpage Long Island, New York. V. B. Cleaver, P. O. Box 356, Hicksville, New York

23-24 (B) KANSAS—Kansas State Gallery Rifle Championships at Manhattan, Kansas. J. E. Mosteller, 1216 Thurston, Manhattan, Kansas

23-24 (B) ARIZONA—Southwestern Small Bore Rifle Championships at Phoenix, Arizona. Glen Taylor, 3110 East Manor Drive, Phoenix, Arizona (Adv-Ltd)

23-24 (B) PENNSYLVANIA—Pennsylvania State Gallery Pistol Championship at Wilkinsburg, Pennsylvania. W. H. Reithmiller, 606 Forest Avenue, Pittsburgh 2, Pennsylvania (Adv)

23-24 (B) NEW YORK—New York State Indoor Pistol Championship at Endicott, New York. Richard W. Rush, 16 Arthur Street, Binghampton, New York (Adv-Ltd)

24 (B) OHIO—Ohio State Gallery Rifle Team Matches at Columbus, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati, Ohio (Adv)

22-23 and 30 (B) UTAH—Utah State Gallery Rifle Tournament at Salt Lake City, Utah. David P. Sugden, 3 North 7th West Street, Salt Lake City 3, Utah (Adv)

April 30-May 1 (B) WISCONSIN—Second Annual Sparta McCoy .30-caliber Rifle Tournament at Sparta, Wisconsin. Earl J. Lucas, 801 North Water Street, Sparta, Wisconsin (Adv)

MAY

7-8 (B) CALIFORNIA—California State Pistol Championships at Bakersfield, California. Captain LeRoy F. Galven, 1075 Alta Vista, Bakersfield, California (Adv-Ltd)

7-8 (B) TEXAS—Southwestern Rifle Tournament at Dallas, Texas. V. A. Noore, 208 N. Akard Street, Dallas, Texas

14-15 (B) TEXAS—Southwestern Pistol Tournament at Dallas, Texas. Mrs. Betty McPhee, 4018-B Travis, Dallas, Texas

21-22 (B) ARIZONA—Twelfth Annual Arizona State Pistol championship at Phoenix, Arizona. C. Howard Hathaway, P. O. Box 71, Tucson, Arizona. (Adv-Ltd)

21-22 (B) KENTUCKY—Outdoor Rifle Tournament at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

21-22 (B) ARKANSAS—Wonder State Small Bore Rifle Tournament at Little Rock. H. L. Remmel, 112 West 9th, Little Rock.

21-22 (B) NORTH CAROLINA—North Carolina State Pistol Championship at Durham, North Carolina. J. E. King, 105 North Hyde Park Avenue, Durham, North Carolina (Adv-Ltd)

21-22 (B) WASHINGTON, D. C.—Twelfth Precinct Pistol Tournament at Washington, D. C. A. M. Guelig, 1732 Capital Avenue, N. E. #2, Washington, D. C. (Adv-Ltd)

28-29-30 (B) CALIFORNIA—1949 California State .30-caliber Rifle Championship. Russell Wisler, Box 637, Belmont, California (Adv-Ltd)

28-29 (B) TENNESSEE—Tennessee State Small-bore Rifle Championship at Knoxville, Tennessee. A. W. Nine, 104 Underwood Place, Knoxville, Tennessee

28-29 (B) TEXAS—29th Annual State Small-bore Championship at Fort Worth, Texas. Henry H. Hankey, 823 Harris Avenue, Austin, Texas (Adv)

28-29-30 (B) HAWAII—Territorial .30 Caliber Rifle Championship at Honolulu, T. H. G. W. Premo, 2323-B Ala Wai, Honolulu, T. H.

JUNE

3-4-5 (B) MARYLAND—Tenth Annual Maryland Revolver and Pistol Championships at Sparrows Point, Maryland. Marcus H. Miles, Sparrows Point Police Department, Sparrows Point, Maryland (Adv-Ltd)

4-5 (B) OKLAHOMA—Magic Empire Small Bore Rifle Tournament at Tulsa, Oklahoma. Matt Dunham, 1708 South Yorktown, Tulsa, Oklahoma (Adv-Ltd)

4-5 (B) CALIFORNIA—Bay District Small Bore Rifle Tournament at Richmond, California. Chilton DeWitt, 3701 Lincoln Avenue, Oakland, California (Adv-Ltd)

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FROM: Jack Rohan

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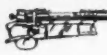

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11-12 (B) MISSOURI—Missouri State Small Bore Rifle Tournament at Warrensburg, Missouri. A. G. Taubert, Warrensburg, Missouri.

11-12 (B) KENTUCKY—Kentucky State Open Pistol and Revolver Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

11-12 (B) CONNECTICUT — Twelfth Annual State Small-bore Rifle Tournament at East Wallingford, Connecticut. J. Russell Lent, c/o Lyman Gun Sight Company, Middlefield, Connecticut (Adv-Ltd)

11-12 (B) ARKANSAS—Arkansas State Pistol Tournament at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

11-12 (B) TENNESSEE—Tri-state Small-bore Rifle at Chattanooga. William J. Bonnie, 4023 Ealy Road, Chattanooga (Adv-Ltd)

11-12 (B) UTAH—State Small Bore Rifle Championship at Fort Douglas, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah (Adv)

17-18-19 (B) CALIFORNIA—Pacific States Championship Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California (Adv-Ltd)

17-18-19 (B) TEXAS—Annual .30 Caliber Rifle State Championship at El Paso, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas

19 (B) IOWA—Annual State Pistol Tournament at Muscatine. Carl Prevratil, 110 East Columbia, Apt. #2, Davenport.

19 (B) OREGON—Oregon State Pistol Championship at Portland, Oregon. John S. Altman, 405 North Stanton Street, Portland, Oregon (Adv-Ltd)

24-27 (A) FLORIDA—Pistol Regional Tournament at Jacksonville, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv-Ltd)

25-26 (A) COLORADO—Regional Rifle Tournament at Denver. Lloyd Markle, 1006 Olive Street, Denver, Colorado

25-26 (B) MICHIGAN—Michigan State Small-bore Tournament at Flint, Michigan. Erv Brehm, 3813 Brewster, Dearborn, Michigan (Adv-Ltd)

25-26 (A) IOWA—Mid-Western Regional Small Bore Rifle Tournament at Des Moines, Iowa. Howard Smith, Box 1395, Des Moines, Iowa (Adv-Ltd)

25-26 (A) TEXAS—Regional Small Bore Rifle Tournament at Waco, Texas. B. Ramsey Powell, Central Texas Rifle and Pistol Club, Waco, Texas (Adv-Ltd)

25-26 (B) MISSOURI—Missouri State Pistol Tournament at St. Louis, Missouri. G. Klersch, 8314 Page Avenue, St. Louis, Missouri (Adv-Ltd)

JULY

2-3-4 (A) NEW YORK—Regional Pistol Tournament at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Boulevard, Poughkeepsie, New York (Adv-Ltd)

2-3-4 (A) TEXAS—Regional Pistol Tournament at Dallas, Texas. Henry H. Hankey, 823 Harris Avenue, Austin, Texas (Adv-Ltd)

2-3 (A) MONTANA—Regional Small Bore Rifle Tournament at Anaconda, Montana. Fred J. Mesenko, Anaconda Rifle and Pistol Club, 700 Oak Street, Anaconda, Montana (Adv-Ltd)

2-3-4 (B) HAWAII—Territorial Pistol Championship at Honolulu, T. H. G. W. Premo, 2323-B Ala Wai, Honolulu, T. H.

2-3-4 (A) VIRGINIA—Regional Pistol Tournament at Quantico, Virginia. Lt. Col. William L. Prickett, Provo Marshall, MCS, Quantico, Virginia (Adv-Ltd)

2-3 (A) INDIANA—Regional Small Bore Rifle Tournament at Bristol, Indiana. Garnette R. Horner, 135 South Scott Street, South Bend 4, Indiana (Adv-Ltd)

9-10 (B) OKLAHOMA—Oklahoma State .30 Caliber Rifle Championship at Clearmore, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

8-9-10 (A) COLORADO—Regional Pistol Tournament at Denver, Colorado. Lloyd Markle, 1006 Olive Street, Denver, Colorado (Adv-Ltd)

9-10 (A) CONNECTICUT — Northeastern Regional Small Bore Rifle Tournament at Middlefield, Connecticut. J. Russell Lent, Middlefield, Connecticut (Adv-Ltd)

10 (B) TENNESSEE—Tennessee State Pistol Championship at Nashville, Tennessee. R. Thurmond Hayes, Hemlock Avenue, Nashville, Tennessee (Adv)

16-17 (B) OKLAHOMA—State Small Bore Rifle Championship at Tulsa, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

16-17 (A) MONTANA—Regional Pistol Tournament at Anaconda, Montana. Oscar Landet, Anaconda Rifle and Pistol Club, Anaconda, Montana (Adv-Ltd)

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16-17 (A) CALIFORNIA—Regional Small Bore Rifle Tournament at Los Angeles, California. Mrs. Gladys Rising, 600 North Mayo, Compton, California (Adv-Ltd)

17 (B) WISCONSIN — State Highpower Rifle Championship at Racine, Wisconsin. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin

23-24 (A) PENNSYLVANIA—Eastern Regional Small Bore Rifle Tournament at Harrisburg, Pennsylvania. George A. Spaid, 3017 North Third, Harrisburg, Pennsylvania (Adv-Ltd)

22-23-24 (A) IOWA—Regional Pistol Tournament at Davenport, Iowa. Dr. J. G. Johnston, 219 West 7th, Muscatine, Iowa (Adv-Ltd)

23-24 (B) ARKANSAS — State Thirty Caliber Championship at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

23-24 (B) WASHINGTON — Washington State Small Bore Rifle Championships at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle, Washington (Adv-Ltd)

24 (B) INDIANA—Indiana State Small-bore Rifle Championship at Anderson, Indiana. Lt. Colonel John Friday, Building 115, Ft. Benjamin Harrison, Indiana (Adv-Ltd)

30-31 (B) OKLAHOMA—State Pistol Championship at Tulsa, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

31 (B) VERMONT—10th Annual Vermont State Pistol and Revolver Tournament at Northfield, Vermont. Louis B. Tims, 4 Wilder Street, Montpelier, Vermont (Adv-Ltd)

30-31 (A) WASHINGTON—Regional Pistol Tournament at Seattle, Washington. C. M. Styer, 120 West Hudson, Seattle, Washington (Adv-Ltd)

AUGUST

6-7 (B) TEXAS—Third Annual Permian Basin Small Bore Rifle at Odessa, Texas. C. W. Sellon, 1003 North Graham Avenue, Odessa, Texas (Adv)

5-6-7 (B) WASHINGTON, D. C.—United States Park Police Fifth Annual Pistol Tournament at Washington, D. C. Captain M. H. Raspberry, United States Park Police, Room 1215, Interior Building, Washington, D. C. (Adv-Ltd)

6-7 (B) LOUISIANA — Louisiana State Pistol Tournament at Shreveport, Louisiana. J. H. Flournoy, P. O. Box 1094, Shreveport, Louisiana (Adv-Ltd)

6-7 (A) OREGON—Northwestern Regional Small Bore Rifle Tournament at Portland, Oregon. Herbert T. Brown, 7159 S. W. 4th Avenue, Portland 1, Oregon (Adv-Ltd)

12-13-14 (A) ARIZONA—Regional Pistol Tournament at Prescott, Arizona. Mack Weiss, Box 1024, Prescott, Arizona (Adv-Ltd)

13-14 (A) TENNESSEE—Southeastern Regional Small Bore at Chattanooga, Tennessee. Paul Zenns, Box 7051, Chattanooga, Tennessee (Adv-Ltd)

20 (B) WISCONSIN—Fifteenth Annual Wisconsin State Small Bore Championship at Racine, Wisconson. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin (Adv)

19-20 (A) CALIFORNIA—Regional Pistol Tournament at Bakersfield, California. Captain LeRoy F. Galyen, California High Patrol, Bakersfield, California (Adv-Ltd)

20-21 (B) NEW YORK—New York State Small Bore Rifle Championship at Bethpage, New York. V. B. Cleaver, P. O. Box 356, Hicksville, Long Island, New York (Adv-Ltd)

20-21 (B) OHIO—Third Annual Ohio Pistol Tournament at Columbus, Ohio. Lt. A. L. Schmeig, 368 East Kanawha Avenue, Worthington, Ohio (Adv-Ltd)

21 and 28 (B) HAWAII—Territorial Small Bore Championship at Honolulu, T. H. George Premo, 2323-B Ala Wai, Honolulu, T. H.

27-28 (B) GEORGIA—2nd Annual Georgia Carolina Rifle Tournament at Augusta, Georgia O. J. Barret, Jr., Route #1, Augusta, Georgia (Adv-Ltd)

SEPTEMBER

3-4 (B) TEXAS—29th Annual State Pistol Championship at Austin, Texas. Henry Hankey, 823 Harris Avenue, Austin, Texas (Adv)

3-4 (B) MICHIGAN—40th Annual Michigan State .30 Caliber Championship at Camp Grayling, Michigan. Henry J. Van Kampen, 557 Navahoe Avenue, Detroit 14, Michigan (Adv)

3-4-5 (B) CONNECTICUT—Connecticut Valley Pistol Championship at Rocky Hill, Connecticut. George G. Ledder, P. O. Box 19, Rocky Hill, Connecticut (Adv-Ltd)

4-5 (B) WEST VIRGINIA—12th Annual Mountain State Pistol Tournament at Parkersburg, West Virginia. R. A. Simpson, Fort Borneman Rifle Club, Parkersburg, West Virginia (Adv-Ltd)

10-11 (B) CALIFORNIA—Bay District Rifle Tournament at Richmond, California. Chilton DeWitt, 3701 Lincoln Avenue, Oakland 2, California (Adv-Ltd)

10-11 (B) VERMONT—Vermont State Small Bore Rifle Tournament at Burlington, Vermont. Miss Pauline B. Cadieux, 410 North Street, Burlington, Vermont (Adv)

10-11 (B) NEW JERSEY—11th Annual New Jersey State Pistol Championship at Teaneck, New Jersey. Frank Svec, Box 42, Leonia, New Jersey. (Adv-Ltd)

10-11 (B) NEBRASKA—Nebraska State Rifle Tournament at Grand Island, Nebraska. Harold H. Buis, 1312 North 35th Street, Omaha 3, Nebraska (Adv)

11 (B) IOWA—Iowa State .30 Caliber Rifle Tournament at Moscow, Iowa. Ruth Maurer, Wilton Junction, Iowa (Adv-Ltd)

17-18 (B) NEVADA—Nevada State Small Bore Championship at Boulder City, Nevada. Mrs. Dorothy D. Cox, Box 453, Boulder City, Nevada (Adv-Ltd)

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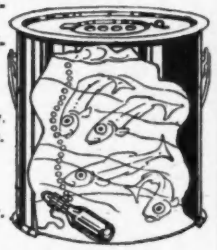

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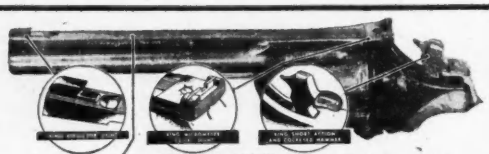

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24-25 (B) FLORIDA—Florida State Pistol Championship at Clearwater, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv-Ltd)
25 (B) UTAH—Utah State Pistol Championship at Salt Lake City, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah

OCTOBER

1-2 (B) PENNSYLVANIA—Pennsylvania State Pistol Tournament at Harrisburg, Pennsylvania. F. H. Wells, 3800 Hillcrest Road, Harrisburg, Pennsylvania (Adv-Ltd)
1-2 (B) OHIO—Ohio State Team Small Bore Rifle Tournament at Mt. Gilead, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv)
1-2 (B) OKLAHOMA—Oil Capitol Fall Small Bore Rifle Tournament at Tulsa, Oklahoma. Matt Dunham, 1708 South Yorktown, Tulsa, Oklahoma (Adv-Ltd)
8-9 (B) ARKANSAS—7th Annual State Small Bore Rifle Tournament at Little Rock, Arkansas. M. F. Fiske, 108 West 9th, Room 207, Little Rock, Arkansas (Adv)
9-10 (B) VIRGINIA—1st Annual Marine Corps School Pistol Tournament at Quantico, Virginia. Lt. Col. William L. Prickett, Provost Marshal, MCS, Quantico, Virginia (Adv-Ltd)
15-16 (B) ALABAMA—Alabama State Championship Rifle Tournament at Mobile, Alabama. H. W. Passinger, 2014 C North Portier Court, Mobile, Alabama (Adv)

STOLEN GUNS

Colt Officers Model Target pistol, .22 caliber, #15574; Colt Police Positive Target, .22 caliber, #40884; Colt Army Special 5" bbl., .32/20, #504351; H & R Single Action "Sportsman", .22 caliber, #S18399; U. S. Revolver, Bulldog style, .38 caliber, #37464; S & W Military & Police, 5", .38 spec., #S858709; S & W Military & Police, 6", .38 spec., #C1032; S & W, K 22 Masterpiece, .22 caliber, #22195; Hi Standard, HB Auto., .22 caliber, #283955; Colt Woodsman Auto., .22 caliber, #113154; H & R Sportsman, .22 caliber, #B3671; Model 1935A-SACM (French), .32 caliber, #1207A; I-J, Mod. 68, .22 caliber, #18091; H & R Mod. 922, .22 caliber, #F179R; Fab. Nat'l (Belgian) Auto., .32 caliber; #402032; Finla (no extractor), .22 caliber, #122; Spanish Star, 9mm., #248828; Fab. Nat'l (Belgian), 9 mm.; Fab. Nat'l (Belgian), .32 caliber, #80516W; Fab. Nat'l (Belgian), .32 caliber; J. P. Saur & Son Auto., .32 caliber; German Auto. (Orgties), .32 caliber; Lawrence No. 27 LF. for K22. Above pistols and revolvers stolen February 16, 1949. Notify Meadville Police Department or A. V. McQuiston, 191 Mead Ave., Meadville, Pa., Phone 40783.

.22 caliber H. M. Pope Rifle, barrel No. 551, built in 1924 on Winchester highside action. Mr. Pope's name appears on action, barrel, right side of receiver and on hammer. Joe Scott Kirton, First National Bank, Orlando, Florida.

All new Model 70 Winchester, Caliber 270. New Texan on new Echo mount, Pachmayr red rubber recoil pad, Whelen type sling, Serial No. 83838. Arthur E. Walling, P. O. Box 79, Tracy, Calif.

.45 caliber silver plated Officers Colt; 9.45 Steyr Rifle; 7.65 silver platel Walther pistol, #349681; Austrian 2 trigger rifle with Cominazzo barrel; Remington 12 gauge #21 double barrel shotgun. All guns have "M.R." markings. Reward. Maxwell Riffkind, 4333 W. Ogden Ave., Chicago, Ill.

Remington Model 31—16 gauge pump, #551458; Remington Model 10—12 gauge pump (with Weaverchoke); Winchester Model 12—12 gauge pump, #939706; Itheca—12 gauge pump; #152776; Remington Model 11—20 gauge Automatic, #1090897; Remington Model 11—12 gauge Automatic, #758347; Remington Model 11—12 gauge Automatic, #787071; Western Field—16 gauge pump, #U104849; Remington—12 gauge Automatic, #489184; Rifle, .30-'06 Enfield Eddystone, #769763; Nambu Machine Gun, .31 caliber; Binoculars, B & L, 7x50, #VG7103; Jap Nambu 8 mm. pistol, #84225; Jap Nambu 8 mm. pistol, #7569; Fabrique National .765 mm., #26767A; Fabrique National 765 mm., #372984; Enfield 455 Caliber Webley; Brevette Mabs, .32 caliber, #46447; Ortgeis German 380 caliber, #136317; Iver Johnson .22 caliber revolver, #10050; Colt Police Positive .32 caliber revolver, #805. Stephen G. Wasley, Steve and Ray's Sporting Goods, 1619 E. Anaheim St., Long Beach, Calif.

Fox Sterlingworth, 16 gauge double barrel shotgun, with Beavertail forearm—30" barrels, #364384. Bert H. Paul, Jr., 4134 Atlantic Ave., Long Beach, Calif.

Savage Rifle, 300 caliber, Model 99, #427764; Winchester shotgun, 12 gauge, Model 1912, #69252. Floyd Benefill, Rt. 2, Elwood, Ind.

200 Portable Bullet Traps, 14" square trap target face, height adjustable from 30 to 48 inches. Stolen from warehouse at 508 South Halsted St. during night of January 15, 1949. Milton P. Klein, Klein's Sporting Goods, Inc., 227 West Washington St., Chicago, Ill.

DOPE BAG

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Edwards Brown, Jr. A. H. Barr J. S. Rose M. D. Waite

Modern Single-Shot Action • About Those Dealer Enfields • Winchester .22 Plinking Rifle • Bergmann Mars Model II • Passing of the Single-Action Army Adjustable Trigger Stop for .45 Auto Brenneke Bullet Information • No. 4350 in .257 Roberts • Post-war Canister Powder • Load for 170 Grain in 8 mm. • Dillon's Loads • Enflish Carving Tools • New Products • Trade Dope • Book Reviews

MODERN SINGLE-SHOT ACTION

A strong, modern single-shot action has been designed, we understand, by J. R. Buhmiller, Kalispell, Montana, with modifications by Clifford B. Bogle, Maryville, Tenn., and W. B. Hoss, Stillwater, Okla. Mr. Hoss has built one action of the falling-block type, and a rifle made up using the action was shown in Col. Townsend Whelen's article on page 25 of the January 1949 issue of the RIFLEMAN.

The working parts of the original Buhmiller action (below) show the unique hammer, which is pinned to the top of the breech block. The entire trigger and hammer mechanism is housed in the breech block. No provision is made to raise or lower the hammer manually.

One of the pilot actions has been proofed

Parts of new Buhmiller single-shot action

using a .300 H&H Magnum case packed with pistol powder behind a 220-grain bullet. Nothing happened to the action or cartridge case, but the barrel threads were wedged so tight in the receiver that, according to Mr. Bogle, a '50-ton jack would not loosen the barrel.' This action could be manufactured if sufficient interest is shown to warrant the cost of tooling up to produce it.—A. H. B.

ABOUT THOSE DEALER ENFIELDS

Although the matter has been mentioned on several previous occasions, we continue to receive inquiries asking why some dealers are advertising .30-'06 Enfield rifles at prices ranging from $39.50 to $59.50 while NRA Members have to wait several months to obtain the $5.00 and $7.50 Enfields from the Director of Civilian Marksmanship.

In a further effort to 'clear the air,' we repeat what we have said before. The Enfields which are being offered by dealers have not been obtained from U. S. Army supplies. The fact that they are being offered by dealers does not in any way affect the supply available for sale by the Director of Civilian Marksmanship. The guns being offered by American dealers have been purchased from importers who obtained the guns with the approval of the American State Department from the British Government. They are rifles which were sent to England under Lend-Lease immediately following the loss by the British Army of a major portion of its small arms during the evacuation at Dunkirk. These rifles have been reconditioned at the plant of the Birmingham Small Arms Corporation in England and are being sold by the British to importers in this country as a part of the British effort to obtain dollar exchange with which to purchase American machinery needed to help England get back on its feet. There are differences of opinion as to whether or not this particular action by the British is advisable, but the fact remains that neither the War Department nor the National Rifle Association is in any way involved in the transaction, nor were either of these organizations consulted by the State Department in approving the arrangement with the British.—C. B. L.

MORE ABOUT JAP CONVERSIONS

Jim Winton, gunsmith of Cherry Grove, Oregon, sent in a Jap 7.7 that he had given a brutal proof test after rebarreling with an Enfield barrel for .30-'06. Space limitation will not permit full details of the lengthy test, but he gave the gun the 'works' and it is still in one piece, though the last and highest tests practically melted the cartridge case.

Mr. Winton says his experience with a large number of Jap rifles has convinced him that "any Jap model 99 7.7 action in good condition has ample margin of safety for the .30-'06 cartridge."

"However," he continues, "I do not wish to imply that the original Jap barrel should be chambered for .30-'06. I have always refused to make that conversion. If you don't cut the barrel back and rechamber, the chamber is so much oversize that it is potentially dangerous. If you do cut back and rechamber for the .30-'06 the new chamber goes so far that the shoulder area is only about .150-inch thick at the chamber wall, the place where the barrel is drilled for one of the rear sight base holding screws. This hole is about .100-inch deep, which leaves the metal in the bottom of the hole only about .050-inch thick, less than the thickness of a new penny. This may or may not be all right, for the Jap barrel is made of very tough steel, but with each shot I would be expecting the hole to emulate the blow-hole in a pressure gun. No, I don't want anything to do with a Jap barrel that has been rechambered for the .30-'06 cartridge, no matter which way it is done.

"To further clarify my position, I don't recommend spending any real money on the 99 action. To rechamber the original barrel for .300 Savage and put on different sights is O.K. To rebarrel with an inexpensive Enfield barrel and chamber for the '06 is all right but any further expenditure is, in my opinion, foolish. If you want a custom barrel and stock, then start with some other action.

"I have rechambered close to 200 of these guns for the .300 Savage and have never seen one yet that would not take all the Hi-Vel No. 2 that can be crammed into the case behind a 180-grain bullet for a proof load and come up with a smile. Just what the pressure is I can only guess, but it is something vicious, quite often enlarging the primer pocket so much the case is useless.

"In case you or anyone else is interested, 40 grains of 4895 behind a 180-grain bullet seated about .250 inch makes a very accurate load in these guns. The recoil indicates they are a little hotter than factory stuff, but I shoot them with perfect confidence. But to be on the safe side, make sure the gun is properly chambered and proof tested."

CANJAR SET TRIGGER

The clever trigger designed by M. H. Canjar, 4476 Pennsylvania St., Denver, Colo., gives a shooter single set-trigger performance and functions also with normal pull, providing the pull is not greater than about 4½ pounds. Hinged at the center, the lower part of the trigger is pushed forward to set it. The let off in the set position can be just about as fine as you care to make it.

We have installed the Model 52-1 Canjar on a Winchester model 52 bull gun and have enjoyed shooting offhand with it. It was very simple to install. The stock is removed and the regular trigger replaced with the Canjar modification. After replacing the stock the lower part of the trigger having a ½-inch finely grooved face is attached by means of a small hinge pin. In this lower portion is contained a small sear, spring and set-trigger adjustment screw. When the lower portion, which pivots on the hinge pin, is pushed forward the sear is engaged. On touching the trigger it is driven to the rear by the spring and its momentum kicks the trigger off. Some of the first triggers had weak springs which would permit adjusting the normal pull to only about three pounds. Mr. Canjar tells us he is making replacements of these springs, however.

As Mr. Canjar states the set-trigger mechanism can be sealed to prevent its use in matches requiring a minimum three-pound pull. The question of the use of the trigger in registered matches was taken before the NRA Small-Bore Committee and the Committee decided that triggers which can be easily converted to set trigger action could not be approved for registered competition. To overcome this objection, Mr. Canjar is now producing a solid trigger shoe which can be put on in place of the set-trigger shoe. We can see no possible objection to use of the Canjar trigger with this solid shoe.

Canjar also makes his single set-trigger for most of the other bolt actions, including the Springfield, Enfield, Winchester model 70, Mauser and Remington model 30 and 720 rifles. Both set mechanism and straight pull are adjustable. We recently installed one of Canjar's triggers in a Firearms International Mauser. Without touching any of the adjustments, it gave an exceptionaliy light but safe set and a crisp 3-pound straight pull.

As in the case of the 52-1 the set is controlled by pushing the main trigger forward which sets the auxiliary mechanism after the

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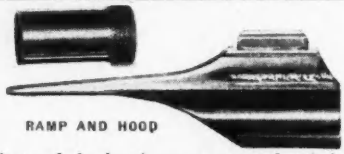
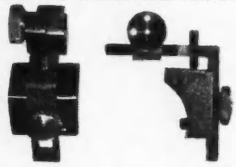


RAMP AND HOOD

The CHRISTY CATERPILLAR RAMP is an exact duplicate of the band ramp, except that it has no band. The caterpillar ramp is furnished complete as above. List price $4.00 each. Instructions for attaching with each shipment.

The 300-S series sight is a sturdy sight of the hunting type attached in the conventional manner with two 6-48 screws. The sliding block feature on the crossarm gives quick positive adjustment and solid locking. This series sight can be furnished for all models, $5.00 list.



The EN-30 Sight is made especially for the Enfield and Remington Express. It fits in place of the bolt stop spring rest in the receiver and is held in place with a set screw from the rear. No drilling or tapping necessary. List price each $5.00.

EN-30

The discs on the above sights are furnished with 1/16" holes and may be reamed out up to ⅛".

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rifle bolt is closed and in firing position. These Canjar triggers are also made with a solid shoe in place of the set-trigger mechanism. Triggers range in price from $15 to $27.—A. H. B. & E. B.

WATCH YOUR INSURANCE!

After receiving a 150-pound container of No. 4895 powder from the DCM, I realized there might be some clause in my insurance policy prohibiting the storage of powder in my home, so I contacted my agent. His answer was: Remove all powder from your home or your policy will be void.

I am bringing this to your attention as a problem that concerns many shooters at present and in the future.—C. C. WEAVER, Fairland, Oklahoma.

Answer: Most insurance companies use a standard form of policy which contains the following clause:

"Unless otherwise provided in writing added hereto this Company shall not be liable for loss occurring while the hazard is increased by any means within the control or knowledge of the insured. . . ."

The interpretation of that clause would depend very largely on the local insurance adjuster's ideas of what constituted a hazard. It is probable that, in general, small quantities of powder such as might be used by the ordinary handloader would not be considered as such a hazard, but it is almost certain that the storage of a 150-pound can of powder would be so considered.—J. S. H.

PASSING OF THE SINGLE-ACTION ARMY

Recently the following open letter to the Colt's Manufacturing Co. was received from Bill Kirsh of Los Angeles, Calif.:

"I believe I am speaking for many thousands of good Americans who are collectors of firearms, shooters who use their guns, or enthusiasts who make the rounds of the local gun shops just to gaze fondly at any type of gun that will shoot and some that will not. I say that you, the Colt's Manufacturing Co., makers of the world's finest guns for many, many years, should be brought before some high bar of justice or a jury of American shooters to answer to a crime against gun lovers everywhere.

"This crime is stopping the manufacture of the most popular and beloved handgun to the hearts of the American shooter, hunter, trapper, cowboy and collector. This gun has a secure place in the history of America. It had a large share in the winning of the West, and many old-timers will tell you they are alive today only because of this wonderful handgun. Yet you of the Colt Co. do not think enough of it to continue its manufacture.

"Of course, by now you know that the gun I am referring to is the one and only single-action Army. I could write many pages about this famous gun. Why has it been discontinued? That is the sixty-four dollar question."

We passed the letter along to Mr. Graham H. Anthony, President of the Colt's Manufacturing Co., who replied as follows:

"Dear Mr. Kirsh: Your letter gives the Colt Company an opportunity to explain to you, and hundreds of other shooters who have championed the cause of the single-action Army, the sound economical reasons

which prompted our discontinuance of this famous old Colt.

"Countless letters have been received deploring our decision, and we are in complete sympathy with all our friends. The decision was a difficult one to make when one considers that this gun, more than any other, was so closely identified with our name and our history.

"We agree, however, in sentiment only. As manufacturers with a clearly defined duty to our stockholders to make products that sell—and sell at a profit—we could not justify the expenditure of $100,000.00 (estimated cost of replacing worn out jigs, fixtures and necessary tools) against an average sale of less than 300 guns (based on single-action Army sales figures for the ten year period preceding the War). Therefore, when you figure those 300 guns per year comprised some 42 different specifications, you get some idea of the reasoning which prompted its withdrawal from our production plans.

"In the year 1947, the Colt Company shipped 534 single-action Army revolvers in seven different calibers, three different barrel length and two different finishes. In the same years, we shipped 14,872 Woodsman pistols to only three different specifications. The only conclusions possible were that

1) The Frontier model had a loyal, but comparatively small following,

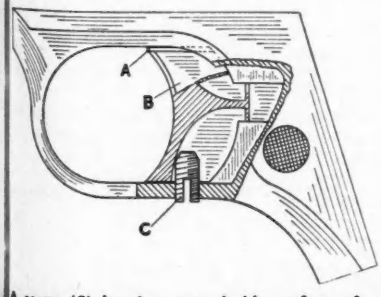
2) This group had its own subdivisions of disciples of one caliber or another, one barrel length or another, etc.

"Needless to say, effort expended on the manufacture of these guns would reflect on the output of models that obviously were preferred by the majority of shooters.

"It was with regret that we removed the old Peacemaker from our line. The fine things said about its pointing qualities, its feel, the part it played in developing the West, were all music to a gunmaker's ears, but the fact remains, it did not sell in sufficient quantities to justify the expense required to continue it as part of the Colt line."

ADJUSTABLE TRIGGER STOP FOR .45 AUTO

Here is a drawing of a trigger stop which I have been using on my .45 auto. I should like to pass it along as fairly simple, and the only adjustable stop that I have seen. To make it I drilled and tapped an 8-32 hole in the bottom of the trigger guard in such a position that the screw would bear against the inclined surface inside the trigger. If the trigger is loose in the slide it is better to sweat a small piece of steel to the top of the trigger (B) as shown by (A). This will give a close adjustment of the trigger travel by a slight turn on the screw (C). I made the screw from drill rod and cut it off after



A screw (C) bearing upon inside surface of a .45 trigger makes an effective trigger stop after a piece of metal (A) is sweated on the top

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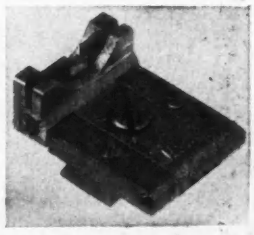

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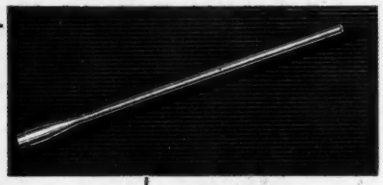

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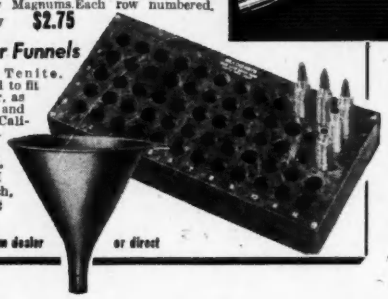

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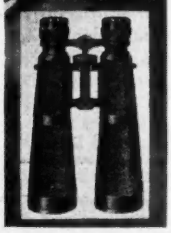

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6.5x55 Mauser, 156 gr.	4.50 Bx
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8 m/m Mauser, 110, 170 or 210 gr.	4.00 Bx
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LOAD of the MONTH
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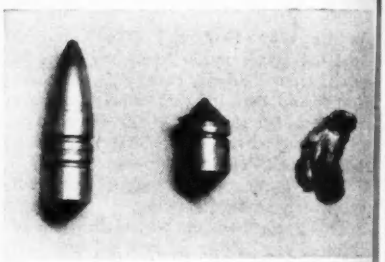
.270 Winchester
100 grain SPEER Bullets
53 grains No. 4320

SPEER
Lewiston, Idaho

the trigger was adjusted, but I believe that any good grade of 8-32 screw would work. By using a small fine saw to make a slot and then spreading the slot, the screw will stay tight in the hole.—L. N. CHAMBERS, Davenport, Iowa.

BRENNEKE BULLET INFORMATION

For the first time in many years I have been able to recover parts of a Brenneke bullet, which are pictured below with another bullet. The bullet hit a big caribou bull dead center in the chest, blew an inch hole through the heart, traveled the whole length of the body and the base plug came to rest under the skin of the right hind quarter a little below the tail, having missed the bone. The destruction, as always with Brenneke bullets, was pronounced. The front part apparently started to blow up after passing the diaphragm and then the lead flew off at right angles to the bullet's path. One piece



Two Brenneke bullet fragments recovered from a caribou bull compared with a 278-grain Brenneke

of lead, still weighing 40 grains, was picked out of the hind quarter by my cook. The weight of the original bullet was 278 grains and 131 grains for the base plug. The powder charge is 77 grains of R Special No. 0. After having used the cartridge for quite a few years in the Northwest, I am thoroughly convinced in my own mind that for long-range shooting on heavy Western game, it can hardly be beaten.

I made an interesting discovery on measuring the perfectly cylindrical butt, which if such a thing was needed, demonstrates again how much more the late Charles Newton knew about interior ballistics than his sometimes amusing critics. The unfired bullet measured an even .366 and the groove diameter of the barrel a scant .368. The flat of the fired bullet showed that it had bottomed perfectly and the complete absence of gas marks on the bullet and on the mouth of the case would seem to indicate perfect obturation. At the base, where the jacket is thickest, the butt measured .365 inch; and halfway between base and crimping groove it measured .366 inch, bearing out Newton's contention that given a heavy steel or iron jacket, the bullet will always expand to groove diameter and the jacket will contract and squeeze into the lead core, which to some extent is softened during its passage up the barrel.

Unfortunately, Brenneke cartridges are no longer made and even though some of the components are still available in very small quantities, they will soon be only a memory for those of us who were fortunate enough to have used them in the game fields of the world.—G. F. H. KONIG, New York City.

NO. 4350 IN .257 ROBERTS

How many grains of No. 4350 powder can I load behind the 117-grain .257 Roberts bullet? I would like to obtain 2900 foot-

seconds velocity if I could do it with safe pressures.

Could I use the same weight of No. 4064 powder with the Weatherby 100-grain .257 Roberts bullet as would be used with the regular 100-grain soft-jacket bullet?

All these loads for the .257 Roberts are using Winchester No. 115 primers.—HAROLD THORNTON, Lincoln, Maine.

Answer: In most .257 Roberts rifles I have found that I can use 46 grains of No. 4350 powder with a 100-grain bullet to get around 3000 foot-seconds velocity. With the 117-grain Remington Core-Lokt bullets I have used 44 grains of the same powder to get very close to 2900 foot-seconds. Not knowing your rifle or how you load, I would recommend you load 1 or 2 grains below these charges and work up to them gradually, particularly with the thick-jacketed Weatherby bullets. Heavy-jacketed bullets will normally cause more pressure for a given powder charge than will a thinner-jacketed bullet.—A. H. B.

POST-WAR CANISTER POWDER

I have found a great deal of variation in the strength of post-war powder over the older pre-war powder. It would be well to warn reloaders that if they are starting on a new can of post-war powder (recognized by new knurled screw cap and different labels), they had better cut loads in larger wildcats at least 2 grains. I had a load that I was using in a .22-K Magnum (.25 Remington case necked down full length), which was 36 grains of No. 4320 and 55-grain bullet, and it showed no extreme pressure. However, when I opened a new can of post-war No. 4320 powder and used the same load I got a jolt. It blew out the primer and swelled the case head so badly the bolt had to be hammered open.

I have also noted very much higher pressures in K-Hornet when using new lots of No. 2400 powder.—LYSLE D. KILBOURN, Whitesboro, N. Y.

LOAD FOR 170 GRAIN IN 8 MM.

I wish to reload 8 mm. with DuPont No. 4320 powder and a 170-grain jacketed bullet, but I can find no charge listed in either the B&M or Ideal Handbooks for that weight bullet. Also, how far should I seat that short bullet?—SELDON L. RANDALL, St. Johns, Arizona.

Answer: I have found that 52 grains of DuPont No. 4320 powder with the 170-grain Speer bullet is a safe load in good Mauser rifles. The velocity is close to 2700 foot-seconds, which is a near maximum load. With the Speer bullet seating depth was .34 inch and overall length of 2.9 inches. The loads were made up with Peters 8-mm. cases. If you use revamped .30-'06 cases, I would advise cutting the powder charge about 2 grains. With reformed .30-'06 cases, the brass is thicker which reduces the powder capacity of the case. Another good 8-mm. load, when using reformed and shortened .30-'06 cases, is 46.5 grains of No. 4895, lot No. 27277.—A. H. B.

DILLON'S LOADS

When we visited Dillon's Custom Loading Shop, 728 Iowa Street, Golden, Colorado, last fall, we stepped behind the counter at Bob's invitation and took out a handful each of .30-'06, 7.7 and 7.92 handloads. We have had an opportunity to fire these cartridges and they all functioned well and gave excellent accuracy, considering the fact that the Jap and German cartridges were fired in mili-

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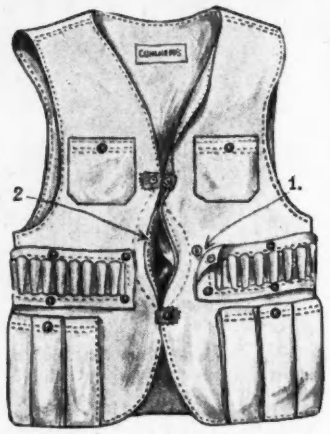

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tary-type rifles with only the open military sights on the Jap rifle.

Recently Dillon has had a number of his loads tested for both pressure and velocity and has kindly furnished us the results with permission to pass them along. He says "note excellent ballistics in 6.5 Jap and 8 x 60 Mauser. I've been watching for dope to compare this information with but it evidently is a big dark secret. Let's crack it open! Here is $380.00 worth of dope for someone to get free."

In the reloads tabulated below, all primers used were No. 120 Winchester.

No. 4350 Powder, Lot No. 12

Caliber	Bullet Weight (grains)	Powder Charge (grains)	Velocity (f.s.)	Pressure (pounds)
.30-'06	200 Barnes	54	2605.8	45,000
.30-'06	200 Barnes	55	2655.4	47,000
.30-'06	200 Barnes	56	2700	52,000
No. 4895 Powder, Lot No. 2191				
.30-'06	110 Barnes	60	3500	50,000
.30-'06	150 Dillon	51	2863.9	45,000
.30-'06	150 Dillon	52	2960.3	46,500
.30-'06	150 Dillon	53	3050	50,000
.30-'06	150 Dillon	54	3100	56,000(dangerous)
.30-'06	170 Dillon	48	2605.5	42,000
.30-'06	170 Dillon	49	2680.3	45,500
.30-'06	170 Dillon	49.5	2720.2	48,000
.30-'06	170 Dillon	50	2790	55,000 (top maximum)
.30-40	150 Dillon	44	2569.98	mild, near top
.30-40	170 Dillon	42	2400	mild, near top
7.7 Jap	150 Barnes	44	2539.83	very mild
7.7 Jap	150 Dillon	46	2700	mild
7.7 Jap	110 Barnes	48	2955.57	mild
6.5 Jap	110 Barnes	39	3100	mild
6.5 Jap	120 Speer	38	2914	mild
6.5 Jap	130 Barnes	36	2750	mild
6.5 Jap	150 Barnes	34	2500	mild
8x60 Mauser	150 Barnes	56	3500	mild
8x60 Mauser	170 Dillon	53	3100	mild
8x60 Mauser	180 Barnes	52.5	3040	mild
8x60 Mauser	180 Barnes	51.5	2930	mild

Note: Lot No. 2191 is one of the mild lots of 4895. Some of the other lots we have used, such as 27277, are stronger and the charges should be reduced a grain or two.—J. S. H.

ENGLISH CARVING TOOLS

Since the publication of Crosette's wood carving article in the RIFLEMAN (January, page 29) we have been deluged with inquiries concerning the availability of Addis brand carving chisels. We have been unable to locate a source for this particular brand, although one English importing firm advised us that good Sheffield steel carving tools of English manufacture are available from Frank Mittermeier, of 3577 East Tremont Avenue, New York, N. Y.

We have written to the Addis firm for information concerning their line of tools, but as yet have received no answer. The firm of J. B. Addis & Co. is located at St. Thomas Street, Sheffield 1, England.—M. D. W.

GRAPHITED PENETRATING OIL

A graphited penetrating oil which we have given a thorough test for the past few months is GraPHilm produced by John K. Bresnan, P. O. Box 666, Oakland, Calif. This lubricant is a micro-crystalline suspension of extremely small, flat graphite particles which spread over the surface with any rubbing action. One intended purpose of the lubricant is in the bore of a gun to provide a graphite film to help eliminate leading and metal fouling. Tests along these lines are not yet complete. We do find the oil an excellent lubricant and a very good light-bodied preservative.—A. H. B.

Correction: Manley Butts has said the statement in THE RIFLEMAN (January, page 25), that during the past season he fired 150 5-shot groups in 100-yard matches and the biggest group was .5625 inch, is not correct.

Butts says that his record for three matches is: at Du Bois, Penna., on Decoration Day, he had an average group size of .557 inch for twenty 3-shot matches; at Bradford, Penna., on July 4, he had an average of .432 inch for ten 3-shot matches; at Johnstown, N. Y., on Labor Day, he had an average of .502 inch for eighteen 5-shot matches.—ED.

NEW PRODUCTS

Winchester center-fire varmint rifle model 43 is available in three styles and four calibers: .218 Bee, .22 Hornet, .25-20 and .32-20. The three styles have a bead front sight with receivers drilled to take the Lyman 57A micrometer receiver sight. The rifle weighs about 6 pounds and over-all length is 42½ inches.

The different cartridges available for use in the model 43 are:

Cartridge	Type	Weight (grains)	Muzzle Velocity (feet per second)
.218 Bee	Hollow point	46	2,860
.22 Hornet	Soft point	45	2,650
.22 Hornet	Hollow point	46	2,650
.25-20 Winchester	Soft point	86	1,450
.25-20 Winchester (high velocity)	Hollow point	60	2,210
.32-20 Winchester	Soft point	100	1,280
.32-20 Winchester (high velocity)	Hollow point	80	2,050

List prices are: Standard grade—$54.95; Special grade with open sights—$66.95, with micrometer peep—$73.25.

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Metro-Ramp revolver from sight permits conversion of a service revolver to a target revolver within seconds. No tools other than an Allen wrench are necessary. Windage and elevation adjustments are easily made, windage by the give and take of two Allen screws which bear on the present front blade sight and elevation by a movable blade in the ramp which is locked in place with one of the Allen screws. The windage screws also hold the sight onto the barrel. The sight is manufactured by the Metropolitan Firearms Company, 155 Canal Street, New York 13, N. Y., and retails for $4.95.

☆ ☆ ☆

Harrington & Richardson Arms Company, Worcester 2, Massachusetts, has announced the availability of a new .22-caliber bolt-action repeating rifle (the Plainsman No. 865). We have not seen one of the rifles but if quality is in keeping with that found in other H&R .22 calibers produced during 1948, it should be a reliable firearm.

☆ ☆ ☆

Adjustable buttplate produced by Freeland Scope Stands has the base attached to the stock and a curved butt which can be moved above or below the line of bore in a dovetail slot and secured in position by Allen screws. The buttplate we examined, which retails for $10, is well made and conforms to NRA rules for registreed competition. Freeland's address is 3437 14th Ave., Rock Island, Ill.

☆ ☆ ☆

Doubles hand trap marketed by Melco Wood Products Company, Inc., Geneva, New York, is cleverly designed to throw doubles (or singles). We were a little skeptical of the hand trap when we first got it because it looked almost too simple to do the job expected of it. We spent an hour or so shooting single and double birds thrown from this

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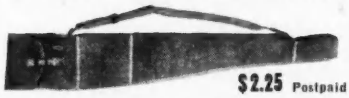

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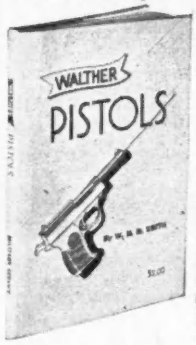

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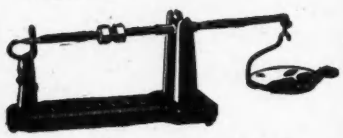

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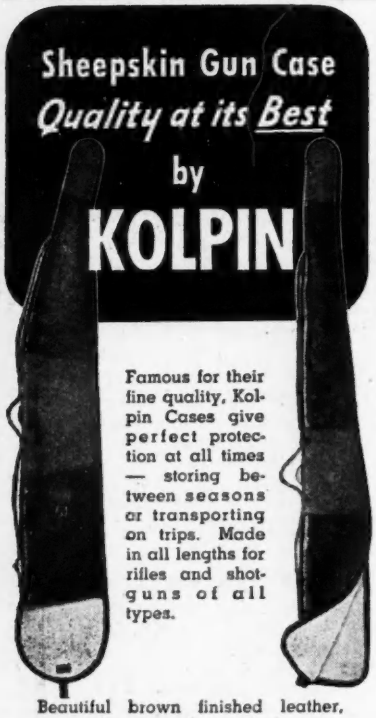

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DISAPPEARING GUN SLING

For Shotguns and Rifles

With this unique new device a sturdy sling is *always* available for instant use, on your favorite shotgun or rifle.

Complete unit in compact housing of light, stainless steel easily installed within butt stock. Includes top-quality leather sling 40 inches in length, which can be adjusted to your exact requirements.

Special set of front swivels for double-barreled shotguns; otherwise all units exactly the same for all other guns. (Please specify.)

Only $7.00, with money-back guarantee, and including full instructions for simple installation. COD's, money orders or checks.

This is not a "gadget" but a strong, dependable sling that will give you years of pleasing service.

Sling is completely out of the way, when not in use

Featured at the New York Sportsman Show

ROMAC CO.
Harris, New York

Dealers and gunsmiths inquiries invited. Sold under "Fair Trade" laws.

trap and as a result we have a high respect for it. It is possible to adjust the trap to give a wide or narrow spread between the two clay birds. Also it is possible to make them do tricks or give a smooth regulation flight.

☆ ☆ ☆

Lens cleaners in a 4x6-inch book containing 50 tissues are being made by the Dow Corning Corp., for Bell & Howell, 7100 McCormick Road, Chicago 45, Illinois. According to the manufacturers, the cleaners leave a transparent silicone coating on the glass surface and improve the light transmission with both uncoated and magnesium fluoride coated lenses. These tissues are the same type as those in the packages of "Sight Saver" tissues being widely marketed throughout the country. A book of tissues sells for 35¢.

☆ ☆ ☆

Variable-power draw tube scope can be set for 15X, 30X or 60X. According to the manufacturers, the tubes also act as a compound microscope when in a collapsed position. The scope, including a leather carrying case, sells for $4.50 from the Brownscope Manufacturing Company, 24 West 45th Street, New York, New York.

☆ ☆ ☆

South Bend Lathes shown in the recent catalog (No. 73) of the South Bend Lathe Works are new 13-inch and 14½-inch swing precision lathes equipped with 1-inch maximum collet capacity headstock spindles. The lathes have 1⅜-inch holes through the spindles. A catalog describing them can be obtained from the Company by addressing correspondence to 405 East Madison Street, South Bend 22, Indiana.

☆ ☆ ☆

Ray Riling, 6844 Gorsten Street, Philadelphia, Pa., is now putting out a new book catalog which is larger than the 1948 catalog, having many more listings. Most important, no listings are over the regular published prices, and included are certain special combination offerings.

This catalog sells for 25 cents to prospective customers but is regularly sent free to all current customers.

☆ ☆ ☆

Luber-Tone and Celub are two gun oils now available. Luber-Tone, a clear, light gun oil produced by Luber-Tone, Inc., 2112 Washington Avenue, St. Louis 3, Missouri, has been on the market for some time as an internal combustion engine lubricant. It is reported to have outstanding coolant qualities.

Celub is the trade name of an oil being advertised by Joseph F. Rivers, Knoll Street, Riverside, Connecticut. The manufacturer claims that it is a powder solvent which lubricates and helps prevent rust.

GUNSMITH TRADE DOPE

Pfeifer Rifle Company, Inc., 11252 Penrose St., Roscoe, Calif., with Joe J. Pfeifer president, now operates in a new building with about 6000 square feet of floor space and departments for all kinds of high quality gun work, from barrelmaking to complete sporters.

We are using one of the completed jobs representative of the joint efforts of the men now connected with the firm. It has a Pfeifer stainless steel barrel, special Don Martin trigger, fine metal work by Sam May, chambering and barrel fitting by E. C. Edgar (formerly Brown & Edgar), and handsome maple stock

by D. J. Kennedy. It is a good example of the highest quality workmanship, which, the company informs us, is the only kind of workmanship they intend to do. Even special wildcat problems will be considered.

☆ ☆ ☆

Custom Gun Department of Johnson Automatics, P. O. Box 1512, Providence 1, Rhode Island, is in new hands. Melvin Johnson, who started the activity, Horace St. Amant, who was chief designer for Johnson Automatics, and Wallace Butler, who headed the production and barrelmaking section have all moved over to the Winchester Division of Olin Industries at New Haven.

Mr. John J. Tuohy, Manager of the Custom Gun Division of Johnson Automatics, has purchased the good will, name and plant facilities and will continue that phase of the business.

☆ ☆ ☆

Newman E. Nelson, Route 10, Box 294, Olympia, Washington, recently submitted for our examination an excellent custom stock for the model 1903 rifle. It was a rather plain maple stock embellished by the Suigi or flame-mottled finish. The borderless checking job was above reproach, with no serious runovers or missing diamonds. We did not test the inletting, but it appeared to be excellent. The hardware on the stock was of top quality, in keeping with the workmanship of the wood portions. Newman charges from $150.00 to $250.00 for his custom stocks although he can supply stocks made up from machine-inletted blanks for $50.00. He is also equipped to undertake general gunsmithing work on rifles and shotguns.

☆ ☆ ☆

Trinidad State Junior College, Trinidad, Colorado, Gunsmithing Department is holding a ten-week refresher course in gunsmithing from June 13th to August 19th. Courses include repairing, converting, welding, stockmaking. All training at Trinidad has been approved by the Veterans Administration. Brochures describing the course can be obtained from the school.

☆ ☆ ☆

American Gun Works, 1284 Sunset Boulevard, Los Angeles 26, California, is now manufacturing, to customer's desired weight and length, target barrels for Colt and S&W revolvers. The barrels have a twist of one turn in 15 inches and are hand-lapped. Cost, installed, of a barrel is $25.00.

☆ ☆ ☆

Numrich Arms Company, Mamaroneck, New York, realizing that many shooters have guns not suited to their present needs, has made a business of arranging swaps and making outright purchase for sale to someone who wants the particular gun in question.

☆ ☆ ☆

Lester G. Cooley, custom gunsmith, has changed his address from Route No. 2, Rhinelander, Wisconsin, to Route No. 1, Merrill, Wisconsin.

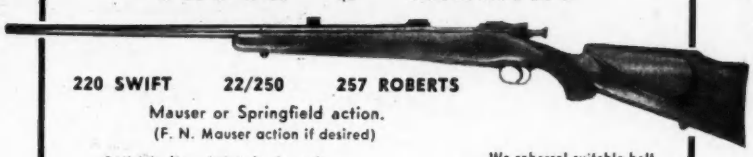
☆ ☆ ☆

Arlington Antique Shop, 100 South Uhle St., Arlington, Virginia, is putting out an antique gun parts list which is very interesting. Anyone trying to replace missing parts on an old gun should write for one of their lists.

☆ ☆ ☆

High Standard Mfg. Company, Hamden, Conn., invites attention to the fact that the contour of the magazine lips is a very critical point on .22-caliber pistols and that spreading these lips as suggested by the maker of one clip-loading device (RIFLEMAN, January, page 61), might cause trouble in feeding.

JAEGER CHUCK RIFLES
"CHUCK" & "VARMINT"



220 SWIFT 22/250 257 ROBERTS

Mauser or Springfield action.
(F. N. Mauser action if desired)

26" Medium Weight Barrel
Target Style Stock
Scope Blocks, No Iron Sights
Weight, about 9 lbs. or Specify Weight

We rebarrel suitable bolt actions with barrels of desired weight and shape.

STANDARD GRADE $150.00
DeLUXE GRADE $195.00

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SENSATIONAL NEW KING-CUFF REDUCES PULSATION

Cushioned with foam latex, on a top grade cowhide, and covered with soft kid, THIS CUFF TAKES THE TORTURE OUT OF SHOOTING. Satisfaction or money back. Shoot in "shirt sleeve comfort." Cuff only $3.75; Short sling $1.50; both $5.00. Full line of guns, scopes & accessories.

DEALERS INQUIRIES INVITED

KIPPS & KING • 1480 N. 52nd St. Phila., Pa

Makes Old Guns Look New

Van's INSTANT GUN BLUE

$1.00 Kit... Removes grease, penetrates rust, leaves a satin blue-black finish. Takes minutes, not hours. Kit includes Gun Blue, cotton, Crocus cloth and steel wool. Ask your dealer... or write for folder.

C. S. VAN GORDEN & SON EAU CLAIRE, WIS.

The G4 WEAVER SCOPE

for .22, .25-20, Hornet, and similar rifles

$9.75 INCLUDING N MOUNT

MODEL G SCOPES are the only ones in their price class that have achromatic lenses, giving sharper definition and a wider, brighter field of view. Internal windage and elevation adjustments are guaranteed for accuracy. Equipped with the same sturdy Type N Mount used with Model J Scopes on high power rifles. No front sight or rear sight; just the crosshairs to align on the target. See the G4 — and other WEAVER-SCOPES — at your dealer's.

WEAVER K4 SCOPE
with Weaver Detachable Top Mount

G4 $9.75 G6 $12.50
Prices of G Scopes include N Mount
WEAVER-SCOPES for all rifles
J2.5 $22.50 J4 $27.50
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K6 $48.50
Weaver Detachable Mounts Top or Side, $9.75

Please send free folders on WEAVER-SCOPES:
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Send for FREE FOLDERS. DEALERS, GUNSMITHS write for our attractive proposition.

(More details of BUEHLER equipment in our classified ad on page 95)

ANNOUNCING TWO NEW PRODUCTS *by* BUEHLER

The "LITTLE BLUE PEEP"

A small blued steel peep sight with its own positive independent windage and elevation adjustments. A necessity — don't let snow, rain, or a damaged scope spoil your hunt!

$3.35 Postpaid

MODEL "B" FOR BUEHLER MOUNTS
MODEL "R" FOR REDFIELD MOUNTS

BUEHLER BOLT BENDING BLOCK

Alter bolts by forging—no cutting or welding on all military bolts. Blocks fully protect all camming surfaces and locking lugs from heat. An altered bolt in a few minutes!

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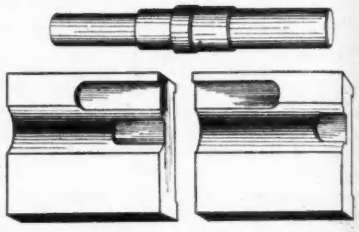
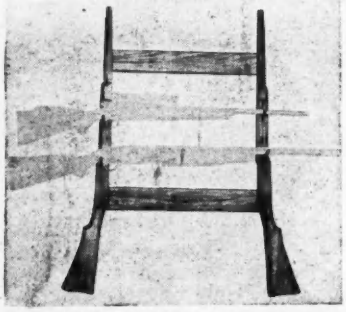


Requires Use of Oxy-Acetylene Torch



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You'll be proud to display your guns on this novel solid walnut rack—side plates of genuine new Enfield Gun Stocks. Holds 4 guns—any size and type—in level position. Substantially made. Shipped knocked down, complete. Quickly assembled with screw driver.

ONLY $7.50 Send remittance and we pay postage. Or, sent C.O.D.—pay postman price plus small postage. Money back guarantee.

GRAYSON TOOL CO., Dept. AR, Hastings, Nebr.

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SPORTSMAN*
Powerful — New — Accurate
Kills Rabbits, Squirrels, Etc.
Routs Pests

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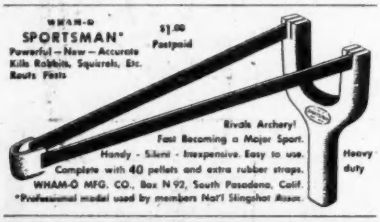
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Fast Becoming a Major Sport.
Handy - Silent - Inexpensive. Easy to use.
Complete with 40 pellets and extra rubber straps.
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*Professional model used by members Nat'l Slingshot Assoc.

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Send 25¢ IN COIN OR STAMPS TO:
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BOOK REVIEWS

EXPERIMENTS OF A HANDGUNNER

By Walter F. Roper

In the 200 pages of his latest book, Walter Roper has presented to the reader a lifetime of experimental work as a shooter and as an engineer designing and manufacturing handguns. Some of the experiments have been reported in THE AMERICAN RIFLEMAN, which in no way detracts from their interest. Many of the experiments have never been published before.

The experiments run the entire course from 'experiment with actions' through 'experiments with trigger pull . . . sights . . . sight adjusting devices . . . targets . . . stocks', to 'experiments in handloading'. The chapter on experiments with machine rests and rest shooting with handguns, seldom covered in other writings of this type, is very interesting.

The final chapter, "Bull Session", is filled with humorous and worth-while comments on handgun shooting from men such as Norman Adair; the National Champion Harry Reeves; Lee Echols; Colonel D. B. Wesson, General Hatcher and Roy D. Jones, as well as many others whose names are equally familiar to the pistol shooting clan.

For the man who likes to tinker with his own handgun, the author's description of his experiments and the excellent pictures throughout the book will allow him to avoid many pitfalls in his own experiments, at the same time giving him the benefit of what another shooter has done, so that he may perhaps start in where the author left off.

We can heartily recommend this new NR library book as a publication which eve shooter will read with benefit.—F.L.W.

(Published by Stackpole and Heck, In New York, New York. 199 pages, price $4.5 Available through the NRA Book Service.)

SHOOTING MAN'S BEDSIDE BOOK

Edited by B. B.

This anthology of writings by Brit outdoorsmen is not a practical book nor w it designed to be. Indeed, the editor o includes a short and informative article ballistics by Major Hugh Pollard, a t in which is listed the weight and diam of single shot pellets, and a listing of ing British gunmakers and dealers, giv their addresses and telephone numbers their specialties, with other short semi-tec cal pieces, because they 'would be deman if they were omitted.'

Shooting Man's Bedside Book cont essays of about fifty writers on an amat miscellany of subjects, gun dogs, cook wild game, shooting records, punt gunni even poetry of the outdoors. Rifle readers will not sympathize with some the editor's selections, but the longer pie studies of wildfowl and accounts of hunt trips, will provide them with a great d of enjoyable reading. W. H. Hudson's count of his first shooting experiences particularly good, as are the subjects writings of Hugh Wormold, J. G. Mill and Eric Hosking.

A hunter seeking excellent reading c lose by turning to this book for it.—J. A.

(Published by Charles Scribner's Sons New York. 479 pages, illustrated. Availa through NRA Book Service. Price $5.00.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: April 1st for the May issue. Ads received after April 1st and not later than May 1st will be inserted in the June issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only,* will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions*: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

FOR SALE

AMMUNITION SPECIALIST: LARGEST variety in America. Fresh Factory Loads Only. Orders shipped out on day of receipt. Free pocket size, watertight, self-locking ammunition container with every order. Following prices for 100 cartridges: 219 Zipper $11.15; 218 Bee $7.69; 22 Hornet $8.55; 22 Savage $11.77; 220 Swift $13.00; 25 Auto $4.85; 25-20 Winchester, lead, $6.33; 25-20 Winchester S.P. $7.30; 25-20 Winchester Hi Velocity $7.82; 25 Stephens Long Rimfire $3.05; 25 Remington $11.78; 250-3000 Savage $13.62; 25-35 Winchester $11.78; 257 Roberts $14.89; 6.5 Mannlicher Schoenauer $16.00; 6.5 X 53 Rimmed $26.00; 6.5 X 57 Rimmed $25.00; 270 Winchester 100 and 130 Grain $16.10; 7 MM Mauser $16.10; 30 Luger $7.20; 7 X 57 Rimmed $28.00; 7 X 64 Rimless $28.00; 7.62 Russian $16.10; 7.63 Mauser $7.20; 30-30 $12.40; 30 Remington $12.40; 30-06 in 110, 150, 180 and 220 Grain $16.10, same Army issue $8.50; 300 Savage $15.50; 300 Holland & Holland Magnum $19.84; 30-40 Krag $16.10; 303 British $16.10; 303 Savage $13.05; 8 MM Mauser $16.10; 8 MM Mannlicher Schoenauer $16.10; 8 MM Lebel $16.10; 8 X 50 Rimmed Steyr $31.00; 8 X 57 JR $30.50; 8 X 60 Rimless $25.50; 8 X 60 Rimmed $28.00; 8.15 X 46 Rimmed $24.00; 32 Short Rimfire $2.45; 32 Long Rimfire $2.83; 32 Auto $5.96; 32 Colt New Police $4.71; 32 Smith & Wesson $4.47; 32 Smith and Wesson Long $4.71; 32 Long Colt $4.71; 32 Short Colt $4.35; 32 Winchester Self-Loading $9.30; 32 Remington $13.10; 32-20 Winchester Lead $6.57; 32-20 Winchester Softpoint $7.82; 32-20 Winchester High Velocity $8.55; 32 Winchester Special $13.10; 32-40 Winchester $11.78; 33 Winchester $16.10; 348 Winchester 150, 200 and 250 grain $17.95; 9 MM Luger $8.18; 9 MM Flobert, Ball, $2.00; 9 MM Rimfire, Long, Shot $7.34; 35 Winchester $17.95; 35 Winchester Self-Loading $8.91; 351 Winchester Self-Loading $9.67; 35 Remington $14.23; 357 Magnum $6.81; 375 Holland & Holland Magnum $21.68; 38 Automatic $6.69; 380 Automatic $6.19; 38 Smith & Wesson $5.57; 38 Colt New Police $5.57; 38 Short Colt $5.20; 38 Long Colt $5.69; 38 Special, Lead, $5.96, same, Metal Cased $6.69; 38 Special Wadcutter $6.08; 38 Special Metal Piercing $7.45; 38-40 Winchester $8.67; 38-55 Winchester $12.39; 401 Winchester Self-Loading $11.98; 405 Winchester $17.90; 41 Long Colt $6.32; 41 Swiss Rimfire $15.75; 44-40 Winchester $8.55; 44 Smith & Wesson Special $7.69; 44 Smith & Wesson Russian $7.45; 45 Colt $7.69; 45 Automatic $8.79; 45 Autorim $8.18; 45 Automatic Match $9.04; 45-70-500 Lead $8.50; 45-70-405 Black Powder $11.00; 45-70-405 Softpoint $14.89; 9.3 X 72 Rimmed $30.00; 9.3 X 74 Rimmed $44.00; 50-70 Government $20.00. Following prices for 500 Cartridges: 4 MM C.F. sub caps $12.95; 22 CB or BB Caps $3.65; 22 Long $5.46; 22 Long Rifle $6.08; 22 Long Rifle Hollow Point $6.75; 22 Long Rifle Shot $8.55. Send in requests for sizes not listed above. Terms: check or money order with your order, or 20% deposit on COD's. Immediate Delivery. Life Member, Philip Jay Medicus, Dept. M, 18 Fletcher Street, New York 7, N. Y.

AMMUNITION — ALL KINDS FACTORY loads. Weinberg's Department Store, 425 West Bay, Jacksonville, Florida.

GUN RACKS, SOLID WALNUT, NEW, TO hold 4 guns, handsomely made, $6.95. For 6 guns, $9.95. 4th Annual Gun Digest $1.50. Send money order. Public Sport Shops, 11 S. 16th Street, Phila. 2, Pa.

SALE: BARGAINS. PRIVATE COLLECtion. Rifles, 257 Roberts; 270; 405; 22. Pumps, 12, 16, Winchesters; Colts, Smith & Wesson. Stamp, list. B. A. Ferringer, Fairmount City, Pa.

LISTINGS OF HUNDREDS OF ANTIQUE and modern arms, edged weapons, cartridges, accessories, small antiques. Get on my mailing list for 25¢. H. A. Brand, 105 E. Third St., Cincinnati 2, Ohio.

BIG CATALOG, ANTIQUE GUNS FOR sale. $1.00. 475 photographs. Satisfaction guaranteed. Gil Hebard, Knoxville 5, Illinois.

ELECTRIC PENCIL: ENGRAVES ALL Metals $1.25 postpaid. Beyer Mfg., 10511-Z Springfield, Chicago, 43.

"SHOTGUNS"—"RIFLES"—"HANDARMS"—"Ammunition"—"Rods"—"Reels". List 10¢. A. R. Rudolph's, Atchison, Kansas.

"POP" EIMER, A.G.G. RIFLE, REVOLVER conversions, Improved 30-06 chambering, targeting. Joplin, Missouri.

NEW, POSTPAID: USMD ALCOHOL Stoves $2.00. Regulation "Signal" Satchels, pad shoulder strap, $1.25. (Doz. Discounts Dealers.) Bogan Company, Dahlgren, Illinois.

PERCUSSION COLT & REMINGTON PARTS. Flint and percussion locks. List 25¢. C. H. Weisz, 100 S. Uhle Street, Arlington, Virginia.

BLANKS: SHOTGUN $1.00. RIFLE $2.50. Figured $6.00. $65.00 Springfield Stock $30.00. E. D. Bray, Newburg, Iowa.

CUSTOM LOADS—40-65, 38-56 LEAD, 7.7 Jap, soft points. 8m/m Mauser $3.50 per box. 22 hi-speed shorts $2.75, long rifles $4.90 per 500. 175 other sizes in stock. Dime for list. Central Sports, Delphos 2, Ohio.

COLT WOODSMAN, SPORT, TARGET, Match Target, Official Police Target 38 and 22, all other Colt Models. K22, K38, and other Models. Smith & Wesson, Hi-Standard, Harrington and Richardson, Remington, Savage, Ithaca, Marlin, Iver Johnson Guns, Ammunition all calibers. Above all factory new. Complete stock National brands fishing tackle, photographic, athletic, bicycle, tennis. Golf, campers' supplies, wholesale prices to legitimate dealers. Orders shipped day received. Mail, telephone, telegraph orders to Dakin Sporting Goods Co., 25 Central St., Bangor, Maine.

SERVICEABLE SA COLT PARTS: MAINspring $2.00; hammer $3.25; hand w/spring $2.00; trigger $1.25; gate $1.75; ejector head $1.50; trigger guard $3.00; screws 35¢ each; .45x5½" barrels, pitted, $2.25. 20-shot magazine for .30/06 Springfield $6.75. C&B revolver repair parts. B. K. Wingate, Box 481, Reading, Pa.

NEW EMPTY PRIMED CASES, FACTORY made. Prices for 100. 22-3000 Lovell $5.50; 219 Zipper $7.10; 220 Swift $7.80; 250-3000 $7.86; 257 Roberts $7.86; 7 MM Mauser $8.20; 270 Winchester $8.20; 300 Magnum $10.56; 8 MM Mauser $8.20; 30-06 $8.20; 35 Whelan $10.00. These prices are manufacturers list. Immediate delivery. Life Member, Philip Jay Medicus, 18 Fletcher St., New York 7, New York.

STOP my ad!

"Due to the *very* heavy response to my ad in the last "Arms Chest" I am forced to ask you to discontinue all further advertising for me—at least for the next month or two!"—N. Y.

The 320,000 gun bugs who read *THE RIFLEMAN* are eager-beaver buyers of an almost endless variety of products, services and gadgets which are useful in shooting and hunting; in all outdoor sports activities; in their workshops, and in their homes.

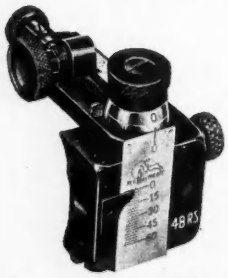
You can reach them all, at an exceptionally reasonable cost thru an ad of your own in these columns. We suggest you send us a "trial" insertion for our June issue, final closing date May 1st.

See above for full instructions

New Lyman

RAMP FRONT SIGHT HOLDER

The Lyman Front Sight Holder, Ramp Style, is easy to attach and position with an Allen set screw under base of front sight. This attractive assembly, which has sufficient stock for reworking if necessary, is readily available for gunsmiths or shooters remodeling. The Ramp comes in four barrel sizes: .595", .605", .620", and .640", suitable for Enfield 1917, Mauser, Springfield, Krag and Russian rifles. Lyman front sight No. 31 with 1/16" ivory or gold bead at $1.25 regularly furnished. Ramp price, $5.00, combination, $6.25. **Give make and barrel diameter of gun when ordering.**



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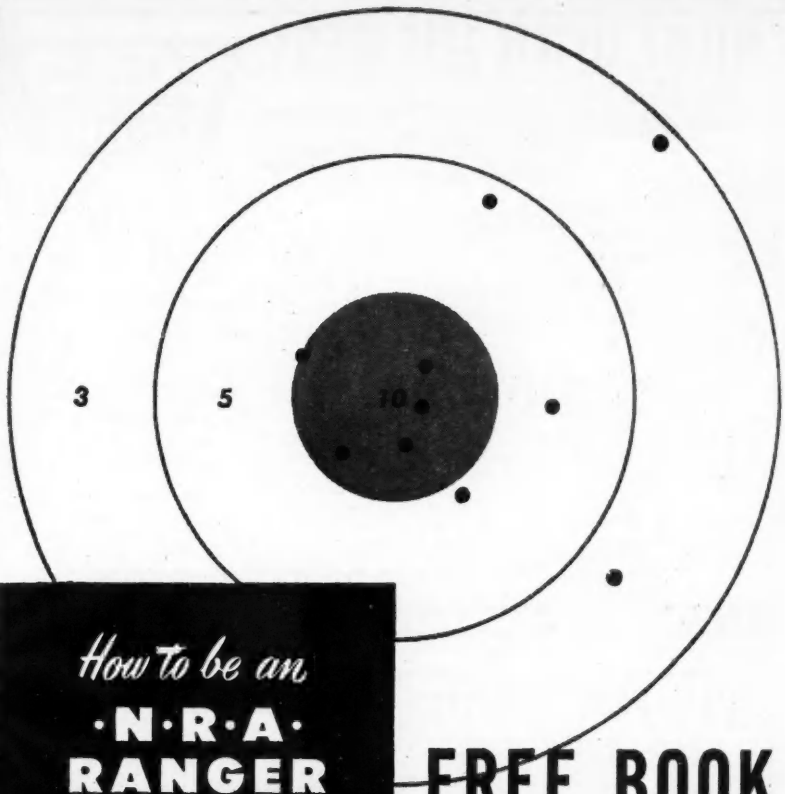

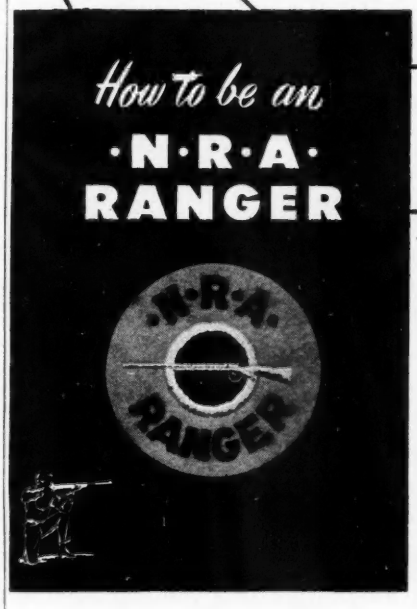

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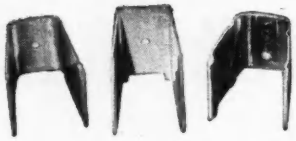

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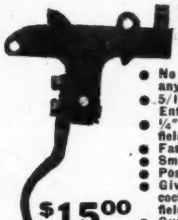

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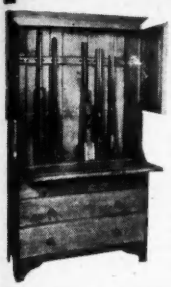

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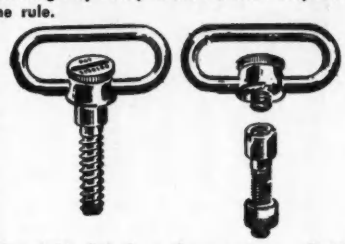

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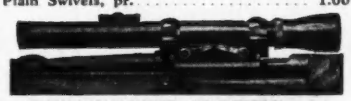

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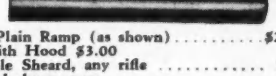

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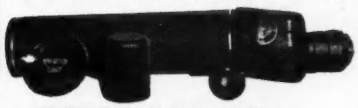

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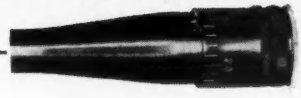

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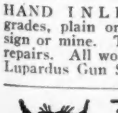

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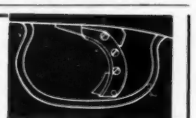

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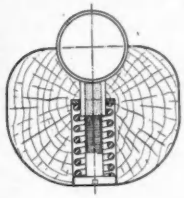

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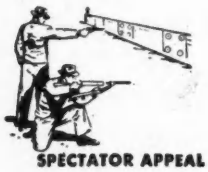

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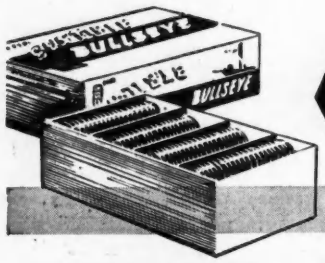

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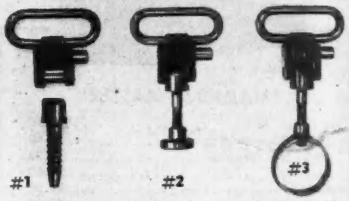

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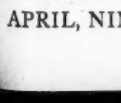

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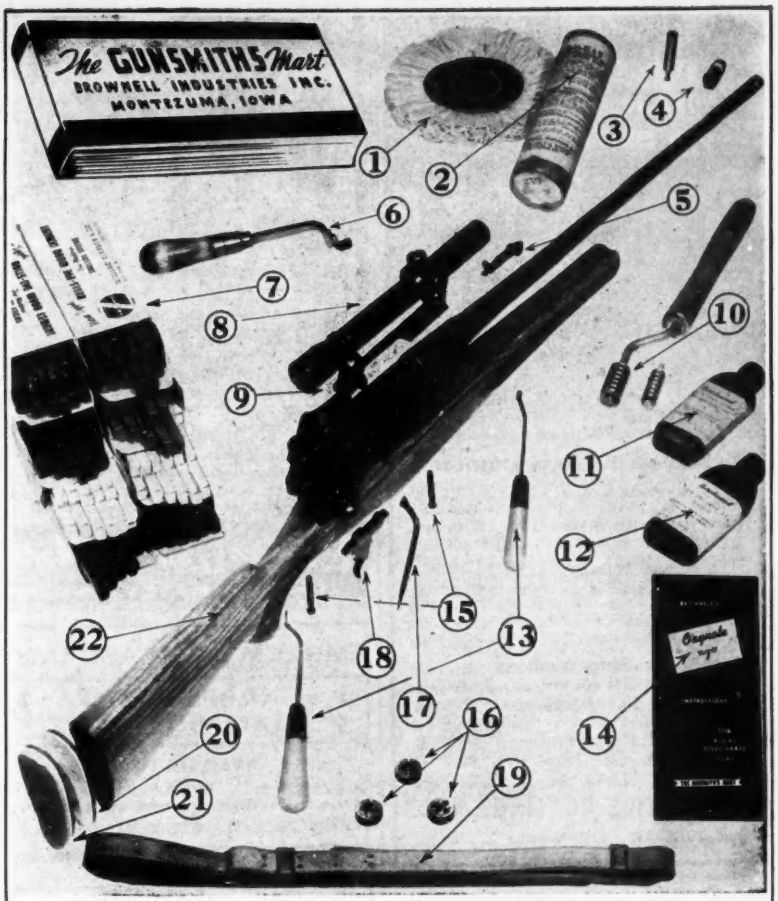

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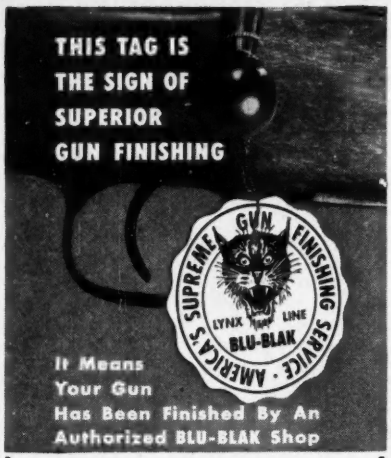

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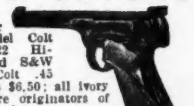

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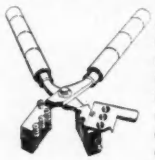

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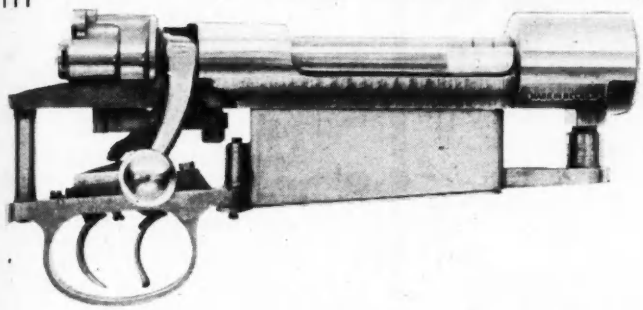

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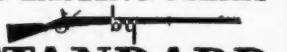

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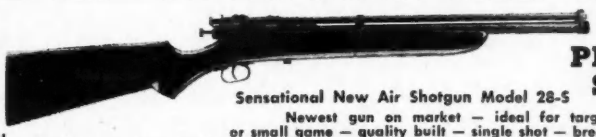

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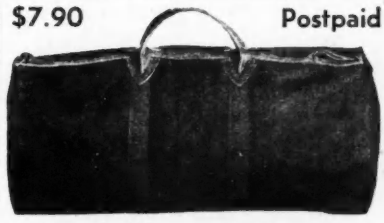

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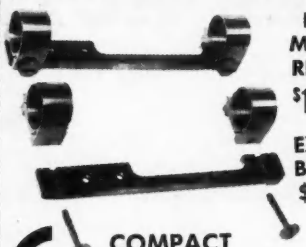

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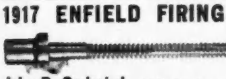

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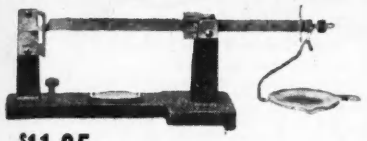

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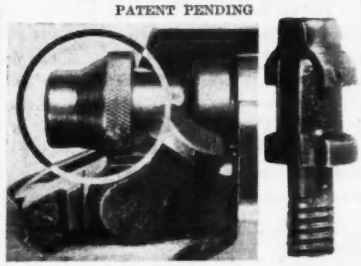

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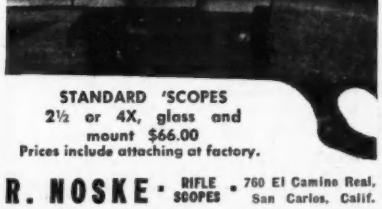

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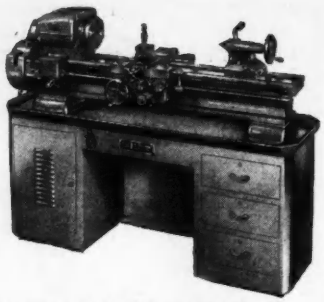

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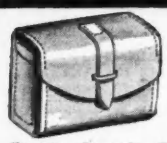

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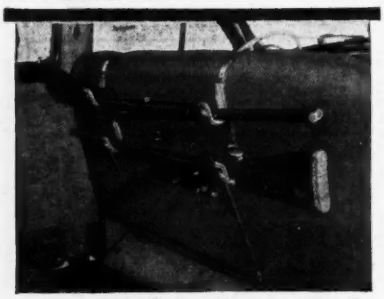

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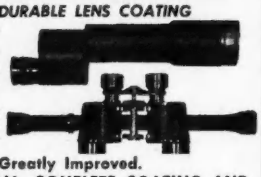

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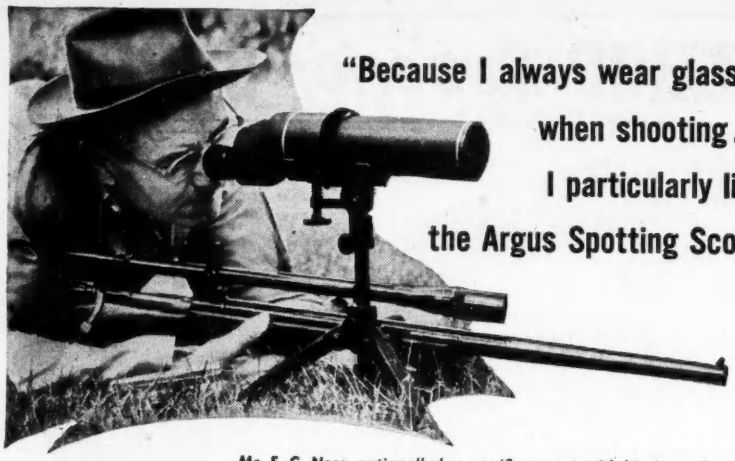

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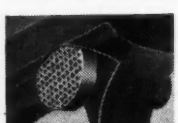

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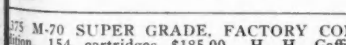

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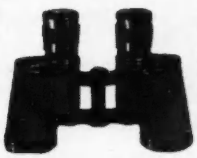

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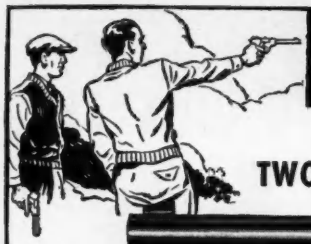

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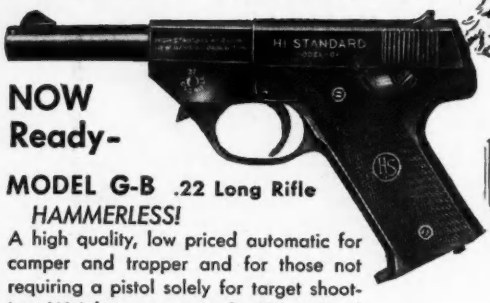

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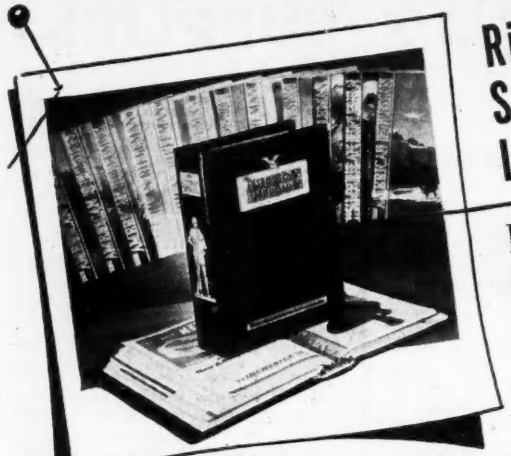

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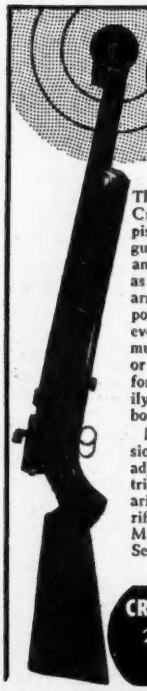

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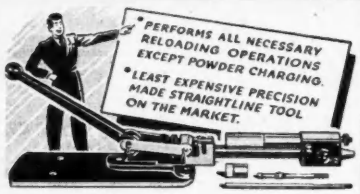
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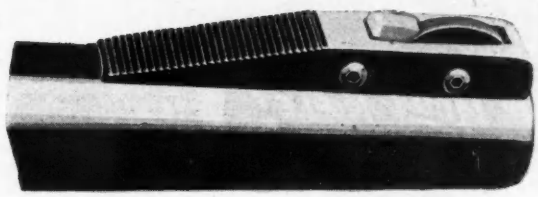

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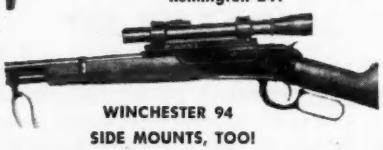

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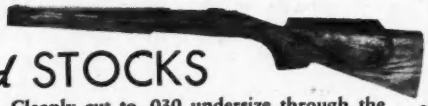

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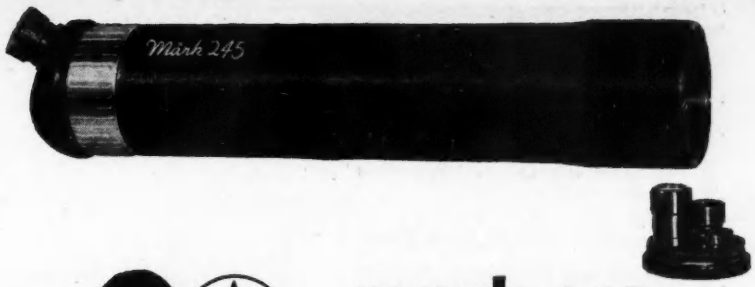

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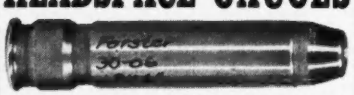

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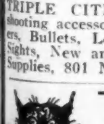

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See Page 76

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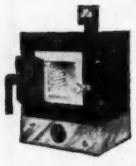

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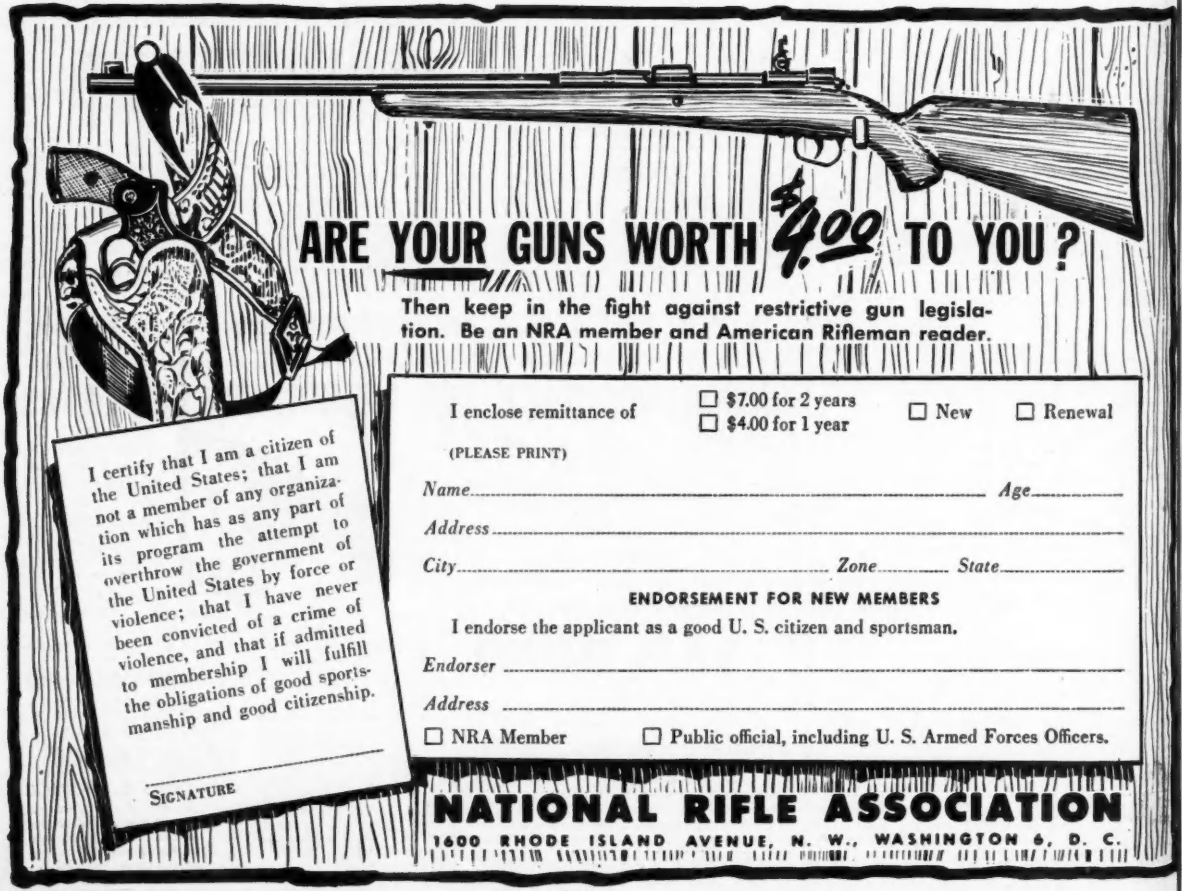

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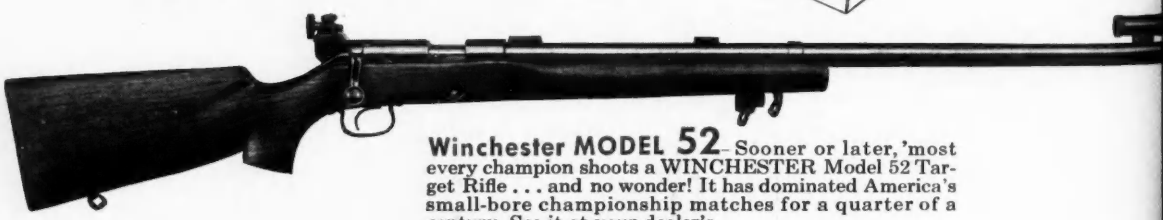

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